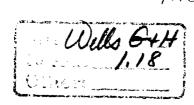


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## FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

FIT PROJECT

Superfund Records Center,
SITE: WCUS 4 H

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TASK REPORT TO THE ENVIRONMENTAL PROTECTION AGENCY CONTRACT NO. 68-01-6056

EVALUATION OF THE HYDROGEOLOGY
AND GROUNDWATER QUALITY
OF
EAST AND NORTH WOBURN, MASSACHUSETTS
VOLUME III
FINAL REPORT

APPENDIX C - WELL DATA 25 June 1982 TDD No. F1-8109-02

Prepared by: Ecology and Environment, Inc.
Field Investigation Team (FIT)
Region 1

Submitted to: John Hackler

### ecology and environment, inc.

International Specialists in the Environmental Sciences

APPENDIX C

Well Data

TABLE C-1
Key to Well Renumbering System

New #	Old #	New #	Old #	New #	Old #	New #	Old #
Sl	WI WI	S51	AG7	101	371	151	14 (Winchester)
S2	WZ	S52	E37	102	5	152	Bl3(Winchester)
S3	WB	S53	426	103	E28	153	153(Winchester)
S/4	W4	S54	AG4A	104	391	154	152(Winchester)
S5	W5	S55	AG6	105	382	155	154(Winchester)
S6	W6	S56	E25	106	381	156	10
S7	w7	S57	AGI	107	374	157	9 (Winchester)
S8	W8	S58	AG2	108	428	158	X2 (Winchester)
S9	W9	S59	AG5	109	429	159	Xl (Winchester)
S10	W10	S60	E41	110	61	160	24 (Winchester)
S11	WII	S61	BW7	111	62	161	Bl4(Winchester)
S12	W12	S62	BW5	112	55	162	X3 (Winchester)
S13	W13(Stoneham)	63	GWB	113	438	163	B3 (Winchester)
S14	W14(Stoneham)	64	GW6	114	63 .	164	B2 (Winchester)
S15	W15	65	GW1	115	64	165	Bl5(Winchester)
S16	W16	66	GW11	116	B12	166	B2 (Stoneham)
S17	W17(Winchester)	67	GW7	117	Bll	167	B3 (Stoneham)
S18	W18(Winchester)	68	CWB	118	B10	168	E10
S19	W19	69	192	119	В9	169	X4
S20	W20	70	GW4(Wilmington)	120	431	170	340 (Reading)
S21	W21	71	76 (Wilmington)	121	432	171	B2 (Reading)
S22	W22	72	77 (Wilmington)	122	430	172	120 (Reading)
S23	GW2 (Wilmington)	73	GW12	123	RW2(Reading)	173	188
S24	GW10(Wilmington)	74	190 (Wilmington)	124	RW4(Reading)	174	E44
S25	GW5 (Wilmington)	75	191(Wilmington)	125	Bl (Reading)	175	E45
S26	GZ3	76	168	126	435	176	GW9 (Wilmington)
S27	GZ2	77	170	127	263		<b>G</b> ,
S28	GZ6	78	178	128	B6		
S29	GZ5	79	119(Reading)	129	85		
s <b>30</b>	E30	80	185	130	5 (Stoneham)		
S31	E29	81	Bl6	131	B15		•
S32	E9	82	164	132	416		
S33	E26	83	176	133	415		
S34	E4	84	183	134	E40		
S35	E12	85	GZ1	135	E40A		
<b>S36</b>	E3	86	B14A	136	414		
S37	E27	87	B6A .	137	412		
S38	Ell	88	G <b>Z/</b> 4	138	417		
S38A	El lA	89	B2A	139	427		
S39	420	90	B9A	140	413		
S40	419	91	306	141	425		
S41	436	92	304	142	187		
S42	E8	93	305	143	B5		
s43	E42	94	В7	144	B4		
S44	364	95	E31	145	4 (Stoneham)		
S45	422	96	E32	146	Bl		
S46	6	97	E33	147	X3 (Stoneham)		·
S47	439	98	E34	148	X1 (Stoneham)		
s48	E39	99	E35	149	27		
S49	E38	100	E36	150	14 (Winchester)		
S50	424						

# TABLE C2 Parameters for Selected Wells and Boreholes in North and East Woburn, Massachusetts

(Key on Page 7)

Page 1 of 7

WELL PARAMETERS WATER Well No. Installed Year Ground Diameter Depth Depth to Bedrock Static Date Static New(Old) Elevation Installed (inches (ft.) Elevation Level Level for Bedrock Measured (ft. MSL) (ft.B.S.) (ft.MSL) (ft.MSL) 0.D.) (ft) 75 s1(W1) 42.5 43 2.0 73.0 10/30/81 1981 2 **EPA** 32 1981 76 48 3.9 10/30/81 S2(W2) 2 72.1 EPA 32.5 28 s3(W3) 1981 45 10/30/81 79 2 44 34 13.6 65.4 EPA 1981 53.5 -30.55.0 48.5 10/30/81 S4(W4) 2 91 84 **EPA** S5(W5) 1981 54 2 65.5 54.6 - 0.6 2.9 51.1 10/30/81 **EPA** s6(W6) 57.5 84 -26.5 8.2 49.3 10/30/81 **EPA** 1981 2 94 73 s7(W7) **EPA** 1981 91 2 28 18 4.1 86.9 10/30/81 45 2.0 43.0 s8(W8) 1981 2 128.5 123 -78 10/30/81 **EPA** s9(W9) 1981 43 65 60 -17 1.9 41.1 10/30/81 **EPA** 2 87 5.5 40.4 42.1 10/30/81 s10(W10) 1981 2 **77**. **EPA** 82.5 75.5 -32.5 41.0 10/30/81 43 S11(W11) 2.0 **EPA** 1981 2 86 51 -10 38.1 -10/30/81 S12(W12) 1981 2 2.9 41 59.5 **EPA** 10 8.8 10/26/81 s13(W13) 1981 79 2 20 69 70.2 EPA 8.9 39.1 10/26/81 48 S14(W14) 1981 2 64.5 54 - 6 **EPA** 31.7 \$15(W15) 2 31 8 7.3 10/30/81 1981 39 41 EPA 1981 84 84 -47 6.6 30.4 10/26/81 S16(W16) 37 2 **EPA** s17(W17) 1981 40 2 111 -71 25.7 14.3 10/30/81 117 EPA 3.0 10/30/81 s48(W18) 2 161 >161 <-134 24.0 **EPA** 1981 27 54 10/30/81 s19(W19) 1981 65 2 49 16 13.1 51.9 EPA <-76 29.8 10/30/81 S20(W20) 1981 65 2 141 >141 35.2 EPA 19.3 10/30/81 S21(W21) 1981 77 2 31.5 21 56 57.7 EPA 37 47 10/15/81 26.0 S22(W22) 1981 84 2 58.0 EPA 44 03/02/81 S23(GW2) 15 >15 <73 11.0 77.0 1977 2 88 Olin Chemical

			WELL PARAMETERS					WATER		
Well No. New(Old)	Installed for	Year Installed	Ground Elevation (ft. MSL)	Diameter (inches 0.D.)	Depth (ft.)	Depth to Bedrock (ft)	Bedrock Elevation (ft.MSL)	Static Level (ft.B.S.)	Static Level (ft.MSL)	Date Measured
S24(GW10)	Olin Chemical	1977	87	2	24	>24	<63	8.6	78.4	11/12/80
S25(GW5)	Olin Chemical	1977	76	2	12	>12	<64	4.1	71.9	11/12/80
S26(GZ-3)	Janpet Associates	1981	68.5	2	35	31	37.5	5.4	63.1	01/19/81
S27(GZ-2)	Janpet Associates	1981	68.5	2	20	>20	<48.5	3.0	65.1	01/12/81
s28(GZ-6)	Janpet Associates	1981	69	2	45	>45	<24	11.7	57.3	01/16/81
S29(GZ-5)	Janpet Associates	1981	69	2	16.5	>16.5	<52.5	12.5	56.5	01/14/81
S32(E9)	Insultab	unk.	100	6"	300	0	100	unk.		
S33(E26)	Solar Power	1979	70	6"	50	50	<20	7.0	63.0	/ /79
S34(E4)	Koala Inn	unk.	61	6	app.600	unk.		7.5	53.5	10/30/81
S38(E11)	N.E. Rifle Assn.	unk.	55	2.5	35	>35	>20	unk.		
539(W420)	Woburn	1964	45	24	89.3	>89.3	<-44.3	1.0	44.0	
540(W419)	Woburn	1967	45	24	88	>88	<-43	1.0	44.0	
S41(W436)	N.E. Plastics	1962	60	8	358	38	22	15.0	45.0	02/ /62
S42(E8)	Mirra	unk.	80	6	200	20	60	unk.		•
S44(W364)	Independent Tallo	w 1940	85	24	34	>34	<51	5.0	80.0	12/02/80
S45(W422)	Woburn	1963	45	2	58	>58	<-13	2.0	43.0	10/ /63
S46(W6)	J. J. Riley	1958	50	24	51	>51	<-1	5.0	45.0	/ /58
S47(W439)	J. J. Riley	1945	55	unk.	35	>35	<20	5.0	50.0	
S50(W424)	Atlantic Gelatin	1961	50	8	140	134	-84	14.0	36.0	02/12/81
S51(AG7)	Atlantic Gelatin	unk.	50	18	115	>115	<-65	unk.		
S53(W426)	Atlantic Gelatin	1960	56	2	142	>142	<-86	14.0	42.0	10/ /60
554(AG4A)	Atlantic Gelatin	1957	35	18	50.6	50	-15	9.8	25.2	12/03/57
555(AG6)	Atlantic Gelatin	1958	47	18	124	>124	<-77	unk.		
S57(AG1)	Atlantic Gelatin	1935	29	18	67	67	-38	unk.		
S58(AG2)	Atlantic Gelatin	1936	32	18	100	>100	<-68	unk.		
S59(AG5)	Atlantic Gelatin	1957	29	18	158	>158	<-129	19.0	10.0	11/20/57

Table C2 - continued

		WEI	WELL PARAMETERS			WATER				
Well No. New(Old)	Installed for	Year Installed	Ground Elevation (ft. MSL)	Diameter (inches O.D.)	Depth (ft.)	Depth to Bedrock (ft)	Bedrock Elevation (ft.MSL)	Static Level (ft.B.S.)	Static Level (ft.MSL)	Date Measured
S60(E41)	MDC	1981	122.4	2	54	24	98.4	26.2	96.2	10/31/81
S61(BW7)	MDC	1982	104	2	80	21	83	unk.		
S62(BW5)	MDC	1982	90	2	60.3	30.5	59.5	15.3	74.7	01/14/82
63 (GW3)	Olin Chemical	1977	85.5	2	22	>22	<63.5	4.2	81.3	12/06/78
64 (GW6)	Olin Chemical	1977	87	2	18	>18	<69	5.9	81.1	11/12/80
65 (GW1)	Olin Chemical	1977	88	2	21.2	>21.2	<66.8	11.3	76.7	11/12/80
66 (GW11)	Olin Chemical	1977	86	2	17	>17	<69	6.3	79.7	11/12/80
67 (GW7)	Olin Chemical	1977	83	2	14	>14	<69	5.3	77.7	11/12/80
68 (GW8)	Olin Chemical	1977	78	2	10.2	>10.2	<67.8	5.1	72.9	11/12/80
69 (W192)	Aberjona Packing	1945	75	2	30	>30	<45	unk.		
70 (GW4)	Olin Chemical	1977	80	2	13.5	>13.5	<66.5	2.5	77.5	12/06/78
71 (W76)	Aberjona Packing	1945	80	2	38.5	>38,.5	<41.5	unk.		
72 (W77)	Aberjona Packing	1945	80	2	23.8	>23.8	<56.2	unk.		
73 (GW12)	Olin Chemical	1977	82	2	12.7	>12.7	<69.3	4.6	77.4	. 11/12/80
74 (W190)	Aberjona Packing	1945	75	2	30	29	46	unk.		
75 (W191)	Aberjona Packing	1945	75	2	21	>21	<54	unk.		
76 (W168)	Aberjona Packing	1945	70	2	19	>19	<51	unk.		
79 (W119)	Aberjona Packing	1945	75	2	19	>19	<56	unk.		
81 (B16)	MDPW	1955	63	2	25	>25	<38	1.0	62.0	08/ /55
82 (W164)	Aberjona Packing	1945	70	2	25	>25	<45	unk.		
83 (W176)	Aberjona Packing	1945	70	2	30	>30	<40	unk.		
84 (W183)	Aberjona Packing	1945	70	2	31	>31	<39	unk.		
85 (GZ-1)	Janpet Associates	1981	71	2	12.5	>12.5	<58.5	6.5	64.5	01/12/81

Table C2 - continued

				WEL	L PARAM	ETERS			WATER	
Well No. New(Old)	Installed for	Year Installed	Ground Elevation (ft. MSL)	Diameter (inches O.D.)	Depth (ft.)	Depth to Bedrock (ft)	Bedrock Elevation (ft.MSL)	Static Level (ft.B.S.)	Static Level (ft.MSL)	Date Measured
86 (B14A)	Janpet Associates	s 1981	70	2	11	>11	<59	5.7	64.3	01/19/81
87 (B6A)	Janpet Associates	1981	69	2	23	>23	<46	5.4	<b>63.6</b> .	01/19/81
88 (GZ-4)	Janpet Associates	s 1981	68	2	20	>20	<48	8.15	59.9	01/16/81
89 (B2A)	Janpet Associates	1981	68.5	2	32	>32	<36.5	9.65	58.9	01/16/81
90 (B9A)	Janpet Associates	s 1981	68	2	11.8	>11.8	<56.2	9.05	59.0	01/16/81
91 (W306)	Stauffer Chemical	l 1957	65	2	48	>48	<17	4.0	61.0	11/ /57
92 (W304)	Stauffer Chemical	1 1957	65	2	64	>64	<1	7.0	58.0	11/ /57
93 (W305)	Stauffer Chamical	l 1957	55	2	62	>62	< <b>-</b> 7	4.0	51.0	11/ /57
94 (B7)	MDPW	1955	63	2	30	>30	<33	2.0	61.0	08/ /55
101(W371)	Stauffer Chemical	l 1957	70	2	30.5	>30.5	<39.5	unk.	,	
104(W391)	Stauffer Chemical	1 1958	55	2	28	>28	<27	2.0	53.0	02/ /58
105(W382)	Stauffer Chemical	1 1957	65	2	38	>38	<27	4.0	61.0	08/ /57
106(W381)	Stauffer Chemical	1 1957	65	2	49	>49	<16	11.0	54.0	08/ /57
107(W374)	Stauffer Chemical	1 1957	60	2	44.5	>44.5	<15.5	3	57.0	06/ /57
108(W428)	Stauffer Chemica	1 1959	65	2	92	>92	<-27	17	48.0	08/ /59
109(W429)	Stauffer Chemical	l 1959	60	2	96	>96	<-36	24	36.0	08/ /59
110(W61)	Stauffer Chemica	1 1934	70	18	39	>39	<31	unk.		
111(W62)	Stauffer Chemica	1 1935	70	18	87	>87	<-17	unk.	~~	
112(W55)	Stauffer Chemica	1 1952	70	18	86	>86	<-17	unk.		
113(W438)	Stauffer Chemical	1 1964	55	24	61	>61	<-6	9.0	46.0	05/ /64
114(W63)	Stauffer Chemical	1 1936	70	18	83	>83	<-13	unk.		
115(W64)	Stauffer Chamica	1 1937	70	24	79	>79	<-9	unk.		
117(B11)	MDPW	1949	91	unk.	72	>72	<19	unk.		

Table C2 - continued

ē					WEL	L PARAM	ETERS			WATER	
	Well No. New(Old)	Installed for	Year Installed	Ground Elevation (ft. MSL)	Diameter (inches O.D.)	Depth (ft.)	Depth to Bedrock (ft)	Bedrock Elevation (ft.MSL)	Static Level (ft.B.S.)	Static Level (ft.MSL)	Date Measured
	118(BlO)	MDPW	1949	58	unk.	96	>96	<-38	unk.		
	119(B9)	MDPW	1949	119	unk.	10.5	>10.5	<108.5	unk.		
	124(W4)	H. O. Howe	1957	120	6	112	18	102	15.0	105.0	09/ /57
	125(B1)	MDPW	1955	109	unk.	37	>37	<72	14.0	95.0	06/ /55
	126(W435)	Lamont	1969	50	2	90	>90	<-40	6.0	44.0	05/ /69
	127(W263)	Johnson Brothers	1958	75	8	364	60	15	unk.		<b></b>
	128(B6)	MDPW	1955	102	2	22	17	85	9.0	93.0	06/ /55
	129(W85)	Woburn	1936	47	2	69	>69	<-22	unk.		
	130(W5)	Greico Brothers	1973	90	2	28	>28	<62	4.0	86.0	08/ /73
	131(B15)	MDPW	1941	37	2	107	>107	<-70	unk.		
	132(W416)	Woburn	1951	45	2	20.6	>20.6	<24.4	unk.		
	133(W415)	Woburn	1951	45	2	53	>53 ·	<-8	unk.		
	136(W414)	Woburn	1951	45	2	40	>40	<b>&lt;5</b> -	unk.		
,	137(W412)	Woburn	1951	50	2	40.6	>40.6	<9.4	unk.		-
3	138(W417)	Woburn	1951	45	2	51	>51	<-6	unk.		
9	139(W427)	Atlantic Gelatin	1966	45	8	33	28	17	unk.		
3	140(W413)	Woburn	1951	50	2	34.5	>34.5	<15.5	unk.		
<b>Š</b> .	141(W425)	Atlantic Gelatin	1961	55	8	145	138	-83	32.0	23.0	03/ /61
	142(W187)	Atlantic Gelatin	1960	55	2	140	>140	<b>-</b> 85	15.0	40.0	10/ /60
3	143(B5)	MDPW	1958	58	2	19	14	44	unk.		
	144(B4)	MDPW	1958	54	2	46	41	13	14.0	40.0	01/ /58
	145(W4)	Atlantic Gelatin	1941	<b>50</b> .	2	26	>26	<24	unk.		
	146(B1)	MDPW	1958	77	2	32	25	52	2.0	75.0	01/ /58

Table C2 - continued

ed b					WEI	L PARAM	ETERS			WATER	
paper	Well No. New(Old)	Installed for	Year Installed	Ground Elevation (ft. MSL)	Diameter (inches O.D.)	Depth (ft.)	Depth to Bedrock (ft)	Bedrock Elevation (ft.MSL)	Static Level (ft.B.S.)	Static Level (ft.MSL)	Date Measured
	147(X3)	unknown	1923	150	unk.	12	>12	<138	unk.		
	148(X1)	unknown	1925	145	unk.	38	>38	<107	unk.		
	151(Bl)	MDPW	1958	100	2	6	1	99	dry		/58
	152(B13)	MDPW	1934	33	2	14.8	>14.8	<18.2	unk.		
	153(W153)	WinWake. Corp.	1967	40	2	97.5	>97.5	<-57.5	15.0	25.0	10/ /67
	154(W152)	WinWake. Corp.	1967	35	2	47.5	>47.5	<-12.5	17.0	18.0	08/ /67
	155(W154)	WinWake. Corp.	1967	40	2	50	>50	<-10	18.0	22.0	10/ /67
	156(W10)	Win.Crushed Stone	unk.	80	6	50	0	80	unk.		
	158(X2)	MDPW	1951	32	2	102	>102	<-70	unk.		
	159(XI)	MDPW	1951	30	2	107.2	>107.2	<-77.2	unk.		
	160(W24)	Berndt Realty	1965	45	18	80	>80	<-35	15.0	30.0	08/ /65
	161(B14)	MDPW	1951	37	2	120.6	>120.6	<-83.6	unk.		
	162(X3)	MDPW	1951	28	2	102.2	>102.2	<-74.2	10.0	18.0	11/ /51
	163(B3)	MDPW	1954	26	2	120	>120	<-94	16.0	10.0	02/ /54
_	164(B2)	MDPW	1951	18	2	110.5	>110.5	<-92.5	4.0	14.0	10/ /51
ecology	166(B2)	MDPW	1958	164	2	48	43	121	unk.		
ğ	167(B3)	MDPW	1958	154	2	27.3	22.3	131.7	1.0	153.0	01/ /58
and	168(E10)	Woburn Nat'l Bank	1979	60	unk.	15	>15	<45	9.0	51.0	/79
<b>3</b> <u>1</u>	169(X4)	Woburn	unk.	55	unk.	21.5	>21.5	<33.5	unk.		
202	170(W340)	Addison Wesley	1965	130	6	1000	13	117	13.0	117.0	11/ /65
nen.	171(B2)	MDPW	1948	157	2	28	>28	<129	unk.		
	172(W120)	Reading	1969	110	2	30	>30	<80	4.0	106.0	08/ /69
	173(W188)	W. Gauvin	1956	145	unk.	227	3	142	60	167.0	09/ /56
	174(E44)	MDC	1981	106.2	2	36.3	7	101.2	10.7	95.5	08/11/81
	175(E45)	MDC	1981	122.8	2	54	14	107.8	23.0	99.8	08/14/81
	176(GW9)	Olin Chemical	1977	90	2	8	3	87	unk.		

#### TABLE C-2

### KEY

MSL = mean sea level

O.D. = outside diameter

B.S. = below land surface

--- = Data unavailable

		Well Log # 138
	ECOLOGY AND ENVIRONMENT, INC.	Project Name Woburn Well Survey
	30 East Cummings Park	Project # TDD F1-8010-03A
	Woburn, MA 01801	Date Prepared 12/21/81
	•	Prepared By M. Hanley
Depth, Ft. (M)	Soil Description	Well No. ( W-l ) S1
	Blow Counts/6"	Location Woburn, MA
	Diow Godiles, o	Bocacion woburn, MA
		Owner U.S. EPA
לאו ורל		Ground Elev. 75 MSL
] ] ]		Driller Geo-Metrics, Inc.
11 11		Drilling Completed
		Type of Rig Truck Mounted
- <del>x</del>		WELL DATA
	Fi11	
(XX)(XX)	1111	Well Diam. 1.4" ID
		Depth 42.5'
		Screen Diam. 1.4" ID
		Screen Setting 4'-34'
1.0.		Screen Type Schedule 80 PVC
5 7 0	Br.M-C sand, some gravel	0.01" Slot
	11-19-100/4"	
-   -   -   -	20 20 100,	Well Type Monitoring
		Static Water Level 2'
-0F -1		Date Measured 10/30/81
		WATER QUALITY
- <u>-</u>		Samples Taken Yes x No
101-0	Y,M-C sand, some silt 6-10-12-14	No. of Samples 5
~ <del>-</del> -		
	•	Type of Samples
1		Priority Pollutants
		Date Sampled 12/1/81
		Samplers Fucarile, Porter
15		Will be Analyzed for
"   - 0 -   -	Gr-Br, silt, some gravel	will be Analyzed lot
	15-20-26-32	
1 ~ 🖂 - 1		
-  -		
20	Gr-Br silt, some gravel	
1-0-1-1	22-50-44-22	
<del> -</del> -	·	<u>·</u>
1 - 1-10-1		
- <u>-</u> - -		
<u> -</u> - □		
25	Gr-Br, F-M sand with some silt and	
	cobbles 17-19-17-27	
- <u>'</u> '		REMARKS
		RETIGINAS
10-11-01		
30	Gr-Br silt and clay, some C sand	
~~  <u>.</u> - *-	and gravel 45-110	
u		SOIL DESCRIPTION ABBREVIATIONS
$X \times \square X \times$		Trace 0-10% C-Coarse Br-brown
X   II X	,	Some 10-40% M-Medium Bl-black
X X   X X		And 40-50% F-Fine Y-yellow
35- X X	Bedrock	T-tan
X X X	oer .	Gr-grey
recycled paper	<del></del>	ecologiogramicine R-red
		N 1 CU

Well Log # 138

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared 12/21/81

Prepared By M. Hanley

Depth, Ft. (M)  Soil Description Blow Counts/6"  Well No.(W-1) S-1 Location  Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Type of Rig Truck Mounte	
Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Type of Rig Truck Mount	
Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Type of Rig Truck Mount	
Ground Elev.  X X X X X X X X X X X X X X X X X X X	
Ground Elev.  X X X X X X X X X X X X X X X X X X X	
Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted  WELL DATA Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC  0.01" Slot Well Type Monitoring Static Water Level Date Measured	
X X X X X X X X X X X X X X X X X X X	
Type of Rig Truck Mounted  WELL DATA	
Well Diam. 1.4" ID  Depth Screen Diam. 1.4" ID  Screen Setting Screen Type Schedule 80 PVC  O.01" Slot  Well Type Monitoring Static Water Level Date Measured	
Well Diam. 1.4" ID  Depth Screen Diam. 1.4" ID  Screen Setting Screen Type Schedule 80 PVC  O.01" Slot  Well Type Monitoring Static Water Level Date Measured	
Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC  O.01" Slot Well Type Monitoring Static Water Level Date Measured	
Screen Diam. 1.4" ID  Screen Setting Screen Type Schedule 80 PVC  O.01" Slot  Well Type Monitoring Static Water Level  Date Measured	
Screen Setting Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring Static Water Level Date Measured	
Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring Static Water Level  Date Measured	
O.01" Slot  Well Type Monitoring  Static Water Level  Date Measured  WATER QUALITY  Samples Taken Yes No No. of Samples  Type of Samples  Date Sampled  Samplers	
Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers	
Static Water Level  Date Measured  WATER QUALITY  Samples Taken Yes No No. of Samples  Type of Samples  Date Sampled Samplers	
Date Measured	
Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers	
Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers	
No. of Samples Type of Samples  Date Sampled Samplers	
Type of Samples  Date Sampled Samplers	
Date Sampled Samplers	
Samplers	
Samplers	
Samplers	
55-	
60-	
65-	
REMARKS	
TOTAL O	
70-	
SOIL DESCRIPTION ABBREVIAT	
Trace 0-10% C-Coarse Br-br	
Some 10-40% M-Medium Bl-b	
And 40-50% F-Fine Y-yell	11-
T-tar	
	n
75-   Gr-gr	n rey

Well Log # 134

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared 12/15/81

Prepared By M. Hanley

Depth, Ft. (M)	Soil Description	Well No. (W2) S2	
	Blow Counts/6"	Location Woburn, MA	
		Owner U.S. EPA	
		Ground Elev. 76'MSL	<del></del>
		Driller Geo-Metrics,	Inc.
		Drilling Completed 6/	
		Type of Rig Truck Mou	
	_	WELL DATA	
	Peat overlying Gr, F silt, M-C sand,	Well Diam. 1.4" ID	
	some grave1.10-16-15-16	Depth 32.5'	······································
0-1		Screen Diam. 1.4" ID	
O-    O-		Screen Setting 4'-32.5	; 1
		Screen Type Schedule 8	O PVC
5 -0 - 5	Gr-Br, silt, M-C sand becoming F	0.01" Slot	
	. 12-14-11	Well Type Monitoring	
0-1-0		Static Water Level 3'	10"
		Date Measured 10/30/	81
		WATER QUALITY	
		Samples Taken Yes x	
10	Br silt, F-M sand, some gravel	No. of Samples 5	
	16-35-65	Type of Samples	
	Boulder	Priority Pollutant	
る。一方二			
U   - 0 -		Date Sampled 12/1/81	
		Samplers Fucarile, Po	rter
15 7 7	T clay, silt, F sand, some gravel	Will be Analyzed for	
12-2-3	27-14-16		
70 H			
00	•		
	Do M . 1 av. ad 1 b. same onessel	<del></del>	
	Br-T clay, silt, some gravel 9-8-10		
	3-0-10		
		·	
0-1-3			
25 0 - 0 7	T clay, silt, sand & gravel		
= 0 = ->-	14-31-26	REMARKS	<del></del>
15.0 □ - 0 I		REMARKS	
		<del></del>	
	Bedrock		
<sup>30</sup> ] ×			
J <sup>×</sup> ,×⊟×,×		SOIL DESCRIPTION ABBR	EVIATIONS
xx;目xx;		Trace 0-10% C-Coarse	Br-brown
	•	Some 10-40% M-Medium	Bl-black
		And 40-50% F-Fine	Y-yellow
ae		and to you I IIME	T-tan
35-		•	Gr-grey
rec <b>yeras pa</b>	Abet	ecologia oppda marika presidenta din c	R-red

Well Log # 133
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

Depth, Ft. (M	Soil Description	Well No. (W3) s3	
<del></del>	Blow Counts/6"	Location Woburn, MA	
	<i>'</i> .		
		Owner U.S. EPA	
או ול		Ground Elev. 79 MSL	<del></del>
		Driller Geo-Metrics,	
	•	Drilling Completed 7/6	/81
		Type of Rig Truck Mou	inted
	Eill (F Sand) 4-11-8-6		
		Well Diam. 1.4" ID Depth 44'	<del></del>
0:		Screen Diam. 1.4" ID	
	•	Screen Setting 4'-44'	
		Screen Type Schedule 8	O PVC
5 5 5 5 5 5	T Clay, silt, sand & gravel	0.01" Slot	0 170
	10-19-17-25	Well Type Monitoring	<del></del>
	•	Static Water Level 13	1711
		Date Measured 10/30/8	
		WATER QUALITY	
		Samples Taken Yes x	
10	T, M-C sand 6-12-16-22	No. of Samples 5	
		Type of Samples	
!O: ∃ O : -	•	Priority Pollutant	
- <i>0</i>			
<i>o</i> ∴ ⊟ o∴-l		Date Sampled 12/1/81	
÷·○ <del>   </del> ·ø·		Samplers Fucarile, Po	rter
15 O -	T silt, C sand, gravel 17-28-33-34	Will be Analyzed for	·
			<del></del>
0 HO			
0 : H 0 - 1			
aa   =:0   □ ::0	Pr M rand hazarina C vila		<del></del>
20 0 -	Br, M sand becoming C, some silt		<del></del>
	& gravel 19-31-37-58	······································	<del></del>
		···	
<u>:0:::</u>  - :0::			<del></del>
25 0 0.		<del></del>	
<sup>23</sup> ] · o'. □ · o · l	Br, C gravel, some silt, changing		
o - ⊟o -	to C sand & gravel 20-30-25-24	REMARKS	
o ⊟ = o		ACTIONS	
30 0 - 0			
o⊟- o	Gr-Br, C sand, gravel 20-15-7-7	<u>-</u>	•
		SOIL DESCRIPTION ABBR	EVIATIONS
		Trace 0-10% C-Coarse	Br-brown
	•	Some 10-40% M-Medium	B1-black
x x x x		And 40-50% F-Fine	Y-yellow
35 X 1 X	n 1 1	~	T-tan
	Bedrock gaper	and and and are	Gr-grey
		ecologic gradustrostrostroste inc.	R-red_

Well Log # 133
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

epth, F	ft. (M)		Soil Description	Well No. (W-3) S3 .
			Blow Counts/6"	Location
	<del></del>			Owner U.S. EPA
×× =	≓× × l			Ground Elev.
lu×u F	⊐J×JI			Driller Geo-Metrics, Inc.
* <sub>*</sub> * E	⊒×,×			Drilling Completed
x ~ ×	∃xX↓			
, × , 🗔	∃`x`∣	D - 1 1-		Type of Rig Truck Mounted
	∃x^x	Bedrock		WELL DATA
×^×=	<b>⊐</b> ^x`			Well Diam. 1.4" ID
×	∃x`x l			Depth
××⊏	□ `x			Screen Diam. 1.4" ID
∖√×∪ Ŀ	⊢x x l			Screen Satting
. ××× ⊨	x			Screen Type Schedule 80 PVC
	_ x x			0.01" Slot
. 1				
]	1 1			Well Type Monitoring
ĺ				Static Water Level
	1 1			Date Measured
	}			WATER QUALITY
	1 1			Samples Taken Yes No
l	1 1			No. of Samples
	1			Type of Samples
]				Type of Samples
				Date Sampled
1	1 1			
1	1 1			Samplers
				Will be Analyzed for
			•	
1			•	
			•	
İ				
				REMARKS
İ			•	
				COTI DECONTRACT LEBRUS LES
				SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brov
			•	Some 10-40% M-Medium B1-blad
1				And 40-50% F-Fine Y-yello
				· · · · · · · · · · · · · · · · · · ·
}				T-tan
ŀ				Gr-grey
	rec <b>(99)89 93</b> 8	ura <i>t</i>		ecology and anyicon menining R-red

Well Log # 123/1
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/30/81
Prepared By M. Hanley

Soil Description Blow Counts/6"  Well No. (W-4) S-4 Location Woburn, MA  Owner U.S. EPA Ground Elev. 53.5: MSL Driller Geo-Metrics, Inc. Driller Geo-Metrics Driller Geo			
Owner	Depth, Ft. (M)	Soil Description	Well No. (W-4) S-4
Ground Elev. 53.5' MSL Driller Geo-Metrics, Inc. Driller Geo-Metrics Britan Breat Res x No No. of Samples Type of Samples Taken Technics Type of Samples Taken Technics Type of Samples Taken Technics Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Sta		Blow Counts/6"	Location Woburn, MA
Ground Elev. 53.5' MSL Driller Geo-Metrics, Inc. Driller Geo-Metrics Britan Breat Res x No No. of Samples Type of Samples Taken Technics Type of Samples Taken Technics Type of Samples Taken Technics Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Static Water Level 5: Date Measured 10/30/81 Sta			Owner II.S. EPA
Drilling Completed 7/1/81   Type of Rig Truck Mounted   Well Diam. 1.4" ID   Depth 91.			
Drilling Completed 7/1/81   Type of Rig Truck Wonted   Well Diam. 1.4" ID   Depth 91   Screen Diam. 1.4" ID   Depth 91   Screen Diam. 1.4" ID   Screen Type Schedule 80 PVC   0.01" Stote   Type Schedule 80 PVC   0.01" Stote   Type Schedule 80 PVC   0.01" Stote   Type Schedule 80 PVC   0.01" Stote   Well Type Monitoring   Static Water Level 5   Date Measured 10/30/91   WATER QUALITY   Samples Taken Yes x No   No. of Samples   Type of Samples   Priority   Pollutant   Date Sampled 11/30/81   Samplers Cook, Porter   Will be Analyzed for   Sampled for Priority   Pollutant   Date Sampled for Priority   Pollutant   Organics 11/3/81   Samplers Cook, Porter   Will be Analyzed for   Sampled for Priority   Pollutant   Organics 11/3/81   Samplers Cook, Porter   Will be Analyzed for   Sampled for Priority   Pollutant   Organics 11/3/81   Samplers Cook, Porter   Will be Analyzed for   Sampled for Priority   Pollutant   Organics 11/3/81   Samplers Cook, Porter   Will be Analyzed for   Trace 0-10% C-Coarse Br-brow   Some 10-40% M-Medium Bi-blac   And 40-50% F-Fine Y-yello   Trace 0-10% C-Coarse Br-brow   Trace 0-10% C-Coarse	71 1		
Type of Rig Truck Mounted  Well Diam. 1.4" ID Depth 91' Screen Setting 4-91' Screen Setting 4-91' Screen Type Schedule 80 PVC O.01' Soren Type Schedule 80 PVC O.01' Static Water Level 5' Date Measured 10/30/81	11-11		
top soil   Well Diam. 1.4" ID   Depth   91'   Screen Diam. 1.4" ID   Screen Setting 4-91'   Screen Setting 4-91'   Screen Type Schedule 80 PVC   0.01"   Slot   Well Type   Monitoring   Static Water Level   5'   Date Measured   10/30/81   Well Type   Monitoring   Static Water Level   5'   Date Measured   10/30/81   Water Level   5'   Date Measured   10/30/81   Samples   Taken   Yes x   No   No. of Samples   Type of Sample		•	
top soil    Comparison			Type of Rig Truck Mounted
Depth   91'   Screen Dism.   1.4"   ID   Screen Setting   4-91'   Screen Setting   4-91'   Screen Type Schedule   80 PVC   0.01'   Slot   Well Type   Monitoring   Static Water Level   5'   Date Measured   10/30/81   Warre   10/30/81   Samples Taken Yes x   No   No. of Samples   Type of Samples   Priority   Pollutant			
Sereen Diam. 1.4" ID   Screen Diam. 1.4" ID   Screen Diam. 1.4" ID   Screen Diam. 1.4" ID   Screen Setting 4-91'   Screen Type Schedule 80 PVC   O.01" Slot   Well Type   Monitoring   Static Water Level 5'   Date Measured   10/30/81   Well Type   Monitoring   Static Water Level 5'   Date Measured   10/30/81   Well Type of Samples   Two No. of Samples   Type of Samples   Priority   Pollutant		ton soil	
Screen Setting 4-91'   Screen Type Schedule 80 PVC		top soil	
Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level 5' Date Measured 10/30/81 WATER QUALITY Samples Taken Yes x No No. of Samples Type of Samples Priority Pollutant  Date Sampled 11/30/81 Samplers Cook, Porter Will be Analyzed for Will be Analyzed for Samples 11/3/81  F-M T sand 4-3-5-5  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellow T-tan Gr-grey			Screen Diam. 1.4" ID
Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level 5' Date Measured 10/30/81 WATER QUALITY Samples Taken Yes x No No. of Samples Type of Samples Priority Pollutant  Date Sampled 11/30/81 Samplers Cook, Porter Will be Analyzed for Will be Analyzed for Samples 11/3/81  F-M T sand 4-3-5-5  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellow T-tan Gr-grey			
top soil  top soil  top soil  top soil  top soil  top soil  top soil  top soil  top soil  top soil  top soil  Well Type Monitoring Static Water Level 5' Date Measured 10/30/81			
top soil    Well Type   Monitoring   Static Water Level 5   Date Measured 10/30/81   M-C BrY silt and sand, some cobbles   O	5		0.01" Slot
Static Water Level 5'   Date Measured   10/30/81     Samples Taken Yes x   No   No. of Samples   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Tority   Pollutant		top soil	
Date Measured 10/30/81  WATER QUALITY  Samples Taken Yes x No No. of Samples Type of Samples Priority Pollutant  Date Sampled 11/30/81  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Gr. fine sand, silt 4-4-3-3  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Total Measured 10/30/81  WATER QUALITY  No. of Samples Type of Samples Priority Pollutant  Date Sampled 11/30/81  Samplers Cook, Porter Will be Analyzed for  WILL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yello Gr. fine sand and silt 4-2-2-2  Total Medium B1-blac And 40-50% F-Fine Y-yello Gr-grey			
M-C BrY silt and sand, some cobbles.  M-C BrY silt and sand, some cobbles.  M-C BrY silt and sand, some cobbles.  M-C BrY silt and sand, some cobbles.  Samples Taken Yes x No No. of Samples Priority Pollutant  Date Sampled 11/30/81  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant  Organics 11/3/81  Gr. fine sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yello Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2	The Art I have a		
M-C BrY silt and sand, some cobbles.  Samples Taken Yes x No No. of Samples Priority Pollutant  Date Sampled 11/30/81  Samplers Cook, Porter Will be Analyzed for Will be Analyzed for Priority Pollutant  Organics 11/3/81  Gr. fine sand, silt 4-4-3-3  Gr. fine sand and silt 4-2-2-2			
M-C BrY silt and sand, some cobbles.  No. of Samples Taken Yes x No. No. of Samples Priority Pollutant  Date Sampled 11/30/81  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant  Organics 11/3/81  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt 4-4-3-3  Gr, F sand and silt 4-2-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellor T-tan Gr-grey			
Type of Samples  Type o	المن المارة المارة	M-C Br -V silt and sand some cobbles	
Type of Samples Priority Pollutant  Date Sampled 11/30/81 Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt 4-4-3-3  Gr, F sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellor T-tan Gr-grey			No. of Samples
F-M T sand 5-4-7-6  F-M T sand 4-3-5-5  Gr, F sand, silt 4-4-3-3  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellor T-tan Gr-grey secology, and environment, inc.  Gr. fine sand and silt 4-2-2-2  F-M T sand 5-4-7-6  Sampled for Priority Pollutant Organics 11/3/81  REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellor T-tan Gr-grey		20-10-10-0	Type of Samples Priority
F-M T sand 5-4-7-6  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant Organics 11/3/81  Gr, F sand, silt 4-4-3-3  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow T-tan Gr-grey ecology and environment, inc. Gr-grey		•	
F-M T sand 5-4-7-6  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant Organics 11/3/81  Gr, F sand, silt 4-4-3-3  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow T-tan Gr-grey Secology and environment, inc. Gr-grey			
F-M T sand 5-4-7-6  Samplers Cook, Porter Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant Organics 11/3/81  Gr, F sand, silt 4-4-3-3  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow T-tan Gr-grey ecology and environment, inc. Gr-grey			Date Sampled 11/30/81
Will be Analyzed for  F-M T sand 4-3-5-5  Sampled for Priority Pollutant Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellor T-tan Gr-grey			
F-M T sand 4-3-5-5  Sampled for Priority Pollutant Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow T-tan Gr-grey secology and environment, inc.  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2		F-M T sand 5-4-7-6	
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey	']: ∷		will be Analyzed for
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Organics 11/3/81  Gr, F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey		F_M T cand 4_3_5_5	Sampled for Priority Pollutan
Gr. F sand, silt 4-4-3-3  REMARKS  Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey	$H^{\perp \perp} : H^{\perp} : H$	1-11 1 3dild 4-3-3-3	
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Trace O-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow The cooley and environment, inc.			
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			<del> </del>
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yello  Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Trace O-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow The cooley and environment, inc.			
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow Trace of the sand and silt 4-2-2-2  Total Gr. fine sand and silt 4-2-2-2  Gr. fine sand and silt 4-2-2-2  Total Gr-grey		Gr, F sand, silt $4-4-3-3$	
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2 T-tan Gr-grey	51		
Gr. fine sand, silt W/R-1-2-2  SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow  Gr. fine sand and silt 4-2-2-2  T-tan  Gr-grey			REMARKS
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow  Gr. fine sand and silt 4-2-2-2  T-tan  Gr-grey			
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Trace O-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Trace O-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Trace O-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey		Gr. fine sand, silt W/R-1-2-2	
Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey ecology and environment, inc.	) <del> </del>	,	
Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey Gregory and environment, inc.			
Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr. fine sand and silt 4-2-2-2  T-tan Gr-grey  Gr-grey			
And 40-50% F-Fine Y-yellow  Gr. fine sand and silt 4-2-2-2  T-tan  Gr-grey  Gr-grey			Trace 0-10% C-Coarse Br-brow
Gr. fine sand and silt 4-2-2-2  T-tan  Gr-grey  Gr-grey		•	Some 10-40% M-Medium Bl-blac
Gr. fine sand and silt 4-2-2-2  T-tan  Gr-grey  Gr-grey			And 40-50% F-Fine Y-yello
Gr-grey	.]   -   -	Gr. fine sand and silt 4-2-2-2	=
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, , r =: Printel and environment to a = 2	_ ·		GI-RICY

Well Log # 123/2
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

		( 1) 0 1
Depth, Ft. (M)	Soil Description	Well No. (W-4) S-4
	Blow Counts/6"	Location
	9	Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
		Type of Rig Truck Mounted
	Gr. fine sand and silt 4-10-10-10	WELL DATA
101	Gr. Time sand and SIIC 4-10-10-10	Well Diam. 1.4" ID
		Depth
	•	Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC
45	Gr. fine sand and silt, trace of cla	0.01" Slot
	W/R-2-5-7	well lype Monitoring
		Static Water Level
		Date Measured
		WATER QUALITY
	·	Samples Taken Yes No
50	Gr. fine sand and silt, trace of cla	No. of Samples
	3-6-4-4	Type of Samples
		**************************************
		Date Sampled
	•	Samplers
55	Gr. fine sand and silt, trace of cla	Will be Analyzed for
	6-5-4-4	·
301	Gr. fine sand and silt, 5-6-12-10	
	511 1210 54114 4114 5112, 5 0.12 20	
	·	
	•	
35	Gr. fine sand and silt 5-7-6-5	
		REMARKS
	•	
70	G. fine sand and silt, trace of clay	
	3-5-5-6	
		SOIL DESCRIPTION ABBREVIATION
		Trace 0-10% C-Coarse Br-brow
	•	Some 10-40% M-Medium Bl-blac
		And 40-50% F-Fine Y-yello
75		T-tan
	Gr fine cand and adds 1/2/2 -	Gr-grey
~ (: h1:: 1	Gr. fine sand and silt $1/U/H-2-3$	or grey

Well Log # 123/3
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

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<u>De</u>	pth,	Ft.	. (M)		Descriptio	<u>a</u>	Well No	(W-4) S-	<u>-4</u> .
				Blow	Counts/6"		Location		
1		_		1					
			<u> </u>			,		S. EPA	
	-: -	-					Ground Elev.		
			<u> </u>				Driller Geo		Inc.
	· ÷.						Drilling Com		
	-0	<u> </u>	. <del>.</del> .	•			Type of Rig_	Truck Mou	nted
80-		П	<u> </u>	Gr. fine sand,	silt, trace	of gravel		WELL DATA	
	בתַר.		:: <u>-</u> :	19-18-15-100/2		01 610,01	well Dlam. I	.4" ID	
	-0	_	∵Ω :		-, -		Depth		
	-	П	<b>7</b>				Screen Diam.		
			$\sigma_{-}$				Screen Setti		
	ХX		XX				Screen Type_	Schedule 8	O PVC
85-	i -					-		.01" Slot	
00	· ^		X	Bedrock			Well Type M		
	XX		XX	]			Static Water	Level	
i	<b>×</b>		×				Date Measure		
	××		хх				WAT	ER QUALITY	
	Х		Х				Samples Take	n Yes	No
90-							No. of Sampl		
30	×	$\dashv$	XX				Type of Samp	les	
							Date Sampled		
				•		•	Samplers		
95-							Will be Anal	yzed for	
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	i				_				
	,								
100-									
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105-					••				
			·				REM	ARKS	
110-									<del></del>
			i						
	{						SOIL DESCRI		
						_	Trace 0-10%		Br-brown
						•	Some 10-40%	M-Medium	B1-black
							And 40-50%	F-Fine	Y-yellow
115-									T-tan
113								~	Gr-grey
_	· 	<u>rec</u>	recycled yeled pa	paper hoer			ecology and er	nvironment, inc.	R-red
							ecology and	d environment	<del></del>

125/1

Project Name Woburn Well Survey

Well Log #

Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 11/30/81 Woburn, MA 01801 Prepared By M. Hanley (W5) S5 Depth, Ft. (M) Soil Description Well No. Blow Counts/6" Location Woburn, MA U.S. EPA Owner Ground Elev 54' MSL Driller Geo-Metrics, Inc. Drilling Completed 7/7/81 Well Diam. 1.4" ID Br M Sand 1-3-5-5 Depth 65.5 Screen Diam. 1.4" ID Screen Setting 4'-65.5' Screen Type Schedule 80 PVC Br Silt and F Sand 9-12-14-15 0.01" Slot Well Type Monitoring Static Water Level 2' 11" Date Measured 10/30/81 ----- WATER QUALITY -----Samples Taken Yes X Br Silt 10 No. of Samples Type of Samples Priority Pollutant Date Sampled 11/30/81 Samplers Cook, Porter 15 Will be Analyzed for Br F Sand 1-3-7-7 Sampled for Volatile 20 Organics 11/3/81 Br F-M Sand 6-7-8-10 Br F Sand grading to Br-Gr Silt with trace clay 10-12-15-17 25 REMARKS 30 Br F-M Sand 3-8-9-11 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow Thin beds of F Silts, Clay and T-tan F Sand 6-7-9-10 Gr-grey ecology and environment, inc. ecology and environment R-red

ECOLOGY AND ENVIRONMENT, INC.

Well Log # 125/2
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Depth, Ft. (M)  Soil Description Blow Counts/6"  Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted WELL DATA Welt Diam. 1.4" ID Screen Setting Screen Setting Screen Setting Screen Setting Screen Setting Screen Setting Screen Setting Screen Setting Screen Setting Static Water Level Date Measured Well Type Monitoring Static Water Level Date Measured Well Type of Samples Type of Samples Type of Samples Type of Samples Type of Samples Type of Samples Soil Description Abbreviations Trace 0-107 C-Coarse Br-brown Some 10-407 M-Medium Bl-black And 40-507 F-Fine Y-yellow T-tan Gr-grey events.grd.or/monachie.ec T-tan Gr-grey events.grd.or/monachie.ec T-tan Gr-grey events.grd.or/monachie.ec T-tan Gr-grey events.grd.or/monachie.ec T-tan Gr-grey		•		
Blow Counts/6"  Count U.S. EPA Ground Elev. Drilling Completed Type of Rig Truck Mounted  Well Diam. 1.4" ID Bepth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level. Date Measured 4-7-7-20  Bedded Br Silt, Trace Clay 4-7-7-20  Bedded Br Silt, Trace Clay  4-7-7-20  Gravel, Some Silt, Trace Clay (TILL)  50  Gravel, Some Silt, Trace Clay (TILL)  50  Gravel, Some Silt, Trace Clay (TILL)  50  Somples Taken Yes No No. of Samples Type of Samples  Type of Samples  Will be Analyzed for  Somples Total				
Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Type of Rig Truck Mount	Depth, Ft. (M)			<del>-</del> 5
40  Br F Silt and Clay 8-8-8-7  Bedded Br Silt, Trace Clay 4-7-7-20  Bedded Br Silt, Trace Clay 4-7-7-20  Gravel, Some Silt, Trace Clay X X X X X X X X X X X X X X X X X X X		Blow Counts/6"	Location_	
40  Br F Silt and Clay 8-8-8-7  Bedded Br Silt, Trace Clay 4-7-7-20  Bedded Br Silt, Trace Clay 4-7-7-20  Gravel, Some Silt, Trace Clay X X X X X X X X X X X X X X X X X X X				
Driller Geo-Metrics, Inc.		,		
Drilling Completed   Type of Rig   Truck Mounted   Well Diam.   1.4" ID   Depth   Depth   Screen Diam.   1.4" ID   Depth   Screen Diam.   1.4" ID   Screen Diam.   1.4" ID   Depth   Screen Diam.   1.4" ID   Screen Diam.   1.4" ID   Depth   Screen Diam.   1.4" ID   Depth   Monitoring   Static Water Level   Date Measured   Well Type   Monitoring   Static Water Level   Date Measured   Mon. of Samples   Type				<del></del>
Type of Rig   Truck Mounted   Well Diam.   1.4" ID   Depth				Inc.
### WEIL DATA ### WEIL DATA ### WEIL DATA ### WEIL DATA ### WEIL DATA ### DEPTH				
### Well Diam. 1.4" ID Depth   Screen Diam. 1.4" ID   Di		•	Type of Rig Truck Mo	unted
Br F Silt and Clay 8-8-8-7   Screen Diam. 1.4" ID		•		
Br F Silt and Clay 8-8-8-7   Screen Diam, 1.4" ID   Screen Setting	40			<del></del>
Screen Setting   Screen Type Schedule 80 PVC   O.01" Slot   Well Type   Monitoring   Static Water Level   Date Measured   Water Quality   Samples Taken Yes   No   No. of Samples   Type of Sa				
Screen Setting   Screen Type   Schedule 80 PVC		Br F Silt and Clay 8-8-8-7		<del></del>
## Solity				
## Well Type Monitoring   Static Water Level   Date Measured   WATER QUALITY   Samples   Type of Sampl				
Bedded Br Silt, Trace Clay  4-7-7-20  Bedded Br Silt, Trace Clay  4-7-7-20  Samples Taken Yes No No. of Samples  Type of Samples  Type of Sampled  Samplers  Will be Analyzed for  Refusal at 54'7" 55-100/1"  X X X X  X X X  X X X  X X X  X X X  X X X  X X X X  X X X X  X X X X  X X X X  X X X X  X X X X  X X X X  X X X X  X X X X  X X X X X  X X X X X  X X X X X  X X X X X  X X X X X X  X X X X X X  X X X X X X  X X X X X X X  X X X X X X X  X X X X X X X X  X				
Bedded Br Silt, Trace Clay  4-7-7-20  Samples Taken Yes No No. of Samples Type of Samples  Type of Samples  Type of Samples  Samplers  Will be Analyzed for  Refusal at 54'7" 55-100/1"  Refusal at 54'7" 55-100/1"  Soll Description Abbreviations Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan G-g-grey	45			
## WATER QUALITY   Samples Taken Yes   No     No. of Samples     Type of Samples     T			<del></del>	<del></del>
Samples Taken Yes No No. of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Type of Samples  Samples  Will be Analyzed for  Refusal at 54'7" 55-100/i"  X X X X X X X X X X X X X X X X X X X				W
No. of Samples   Type of Sam		4-7-7-20		
50				no
Gravel, Some Silt, Trace Clay (TILL)  94-63-30-27  Refusal at 54'7" 55-100/1"    X				
Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Samplers   Will be Analyzed for   Samplers   S			Type of Samples	<del></del>
Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Samplers   Will be Analyzed for   Samplers   S	a=0=0=0	•		
Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Will be Analyzed for   Samplers   Samplers   Samplers   Will be Analyzed for   Samplers   S		0 1 0 0 011 m 01 (milit)	Data Sampled	
Refusal at 54'7" 55-100/1"    X				
Refusal at 54'7" 55-100/1"    X		94-63-30-27		<u></u>
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey		Pefugal at 5/17" 55-100/1"	"III be imalyzed for_	·
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	33 03:	Reidsal at 34 / 35-100/1		
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10Z C-Coarse Br-brown Some 10-40Z M-Medium B1-black And 40-50Z F-Fine Y-yellow T-tan Gr-grey	$  \times \square \times  $			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	lx x⊟x xl			
60 X X X X X X X X X X X X X X X X X X X	[ ·   F=-7	Bedrock		
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	, <del>, , ,</del> ,			····
X X X X X X X X X X X X X X X X X X X	601'	•		
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey				<del></del>
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	X XE X X			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	x   x			
FEMARKS  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	1			
REMARKS  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey				
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	ee]			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey			REMARKS	
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey				
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey				
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey				
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey				
Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	70-			
Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey				
And 40-50% F-Fine Y-yellow T-tan Gr-grey				
T-tan  75- Gr-grey		•		
75- Gr-grey			And 40-50% F-Fine	
			-	
recycled paper ecologic epid navigorance. R-red	75	00000		
	recy <del>cled pap</del>	Ather	<u> </u>	K-red

,	ECOLOGY AND ENVIRONMENT, INC.  30 East Cummings Park  Woburn, MA 01801	Well Log # 124/1 Project Name Woburn Well Project # TDD F1-8010 Date Prepared 11/30/81 Prepared By M. Hanley	Survey -03A
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No.(W-6) S-6 Location Woburn, MA	
		Owner U.S. EPA  Ground Elev. 57.5' MSL  Driller Geo-Metrics, I  Drilling Completed 7/1	4/81
	Fill .	Type of Rig Truck Moun  Well Diam. 1.4" ID  Depth 94'  Screen Diam. 1.4" ID	ted
5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T. sand and silt, some cobbles. (Till) 7-18-23-25	Screen Setting 4-94' Screen Type Schedule 80  0.01" Slot  Well Type Monitoring Static Water Level 8'2' Date Measured 10/30/81	
10 -0 -0	T. C. sand and silt, some cobbles (Till) 8-13-33-60	Samples Taken Yes x No. of Samples Type of Samples Priority	No
15 -0 -0	T. sand and silt, and clay, some cobbles (Till) 27-40-93-50/2"	Date Sampled 11/30/81 Samplers Cook, Porter Will be Analyzed for	
20 0 0	T-Gr. sand and silt, Trace of clay, cobbles (Till) 54-100/3"	Sampled For Volatile Or 11/3/81	ganics
	T-Gr. clay, silt and sand (till)		
25	100/4"	REMARKS	
30	T.Gr. clay, silt and sand (till) 64-90-112	SOIL DESCRIPTION ABBRE Trace 0-10% C-Coarse	VIATIONS Br-brown
35 recveled page	T., Gr, clay, silt and sand and gravel P(Till) 100/4"	And 40-50% F-Fine	Bl-black Y-yellow T-tan Gr-grey R-red

Well Log # 124/2
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Depth, Ft. (M)	Soil Description	Well No. (W-6) S-6
<u> </u>	Blow Counts/6"	Location
	•	
		Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
	•	Type of Rig Truck Mounted
	m (121 3 1 1	WELL DATA
40 -0-1-1-1	T. Gr. clay, silt and sand, gravel (Till) 35-53-46-50	Well Diam. 1.4" ID
	(1111) 33-33-40-30	Depth Screen Diam. 1.4" ID
		Screen Setting
0-:0		Screen Type Schedule 80 PVC
		0.01" Slot
45 0 0	Tr. Gr. clay silt and sand, some	Well Type Monitoring
0.0 V	gravel and boulders (till) 100/6'	Static Water Level
		Date Measured
-0-		WATER QUALITY
		Samples Taken Yes No
1 0 - 7 - 7	T. gravel, trace of clay some silt	No. of Samples
50-0-0-0-	(till) 100/4"	Type of Samples
1 = 0 <del> </del> 0 = 1	(3222) 200)	
170H -0		
		Date Sampled
0-0		Samplers
[7-0] 7-1	Tr. T. clay, silt and sand, some	Will be Analyzed for
55 00 0	gravel (Till) 52-100/5"	
	graver (1111, 51 100,5	
	·	
	boulder, gravel	· · · · · · · · · · · · · · · · · · ·
60		
00-0	•	
-O		
65 7 7	Gr. F-M sand and silt with cobbles	
	(Till) 7-37-52-71	REMARKS
	(1111) 1-31-36-11	
700 -0	Gr. f-m sand and silt with cobbles	
TO HE A	13-57-100/4"	SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
	·	Some 10-40% M-Medium Bl-black
	·	And 40-50% F-Fine Y-yellow
	T offe trace of send 20 leases of	. T-tan
75	T. silt, trace of sand 2" lenses of apper 25-50/100	67
recycleu papel		ecolegic and maximum name inc. R-red

Well Log # 124/3
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·
Depth, Ft. (	M) Soil Description	Well No. (W-6) S-6
	Blow Counts/6"	Location
12.21		
		Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
	silt, sand and boulders (till)	Type of Rig Truck Mounted
80	120/5"	WELL DATA
		Well Diam. 1.4" ID
-70-7		Depth Screen Diam. 1.4" ID
	<u>-0</u>	Screen Setting
<u> </u>	<u>.</u>	Screen Type Schedule 80 PVC
as XX X	X .	0.01" Slot
85 \x^\\ \x		Well Type Monitoring
x`x   x		Static Water Level
	$\tilde{c}$	Date Measured
X X   X		WATER QUALITY
│ × □.×	Bedrock	Samples Taken Yes No
	[X]	No. of Samples
90 x x \ \ x		Type of Samples
	(	
$ X  \times  X  =  X $	,×	
x <sup>*</sup> x  x'	Ϋ́	Date Sampled
^ ^		Samplers
95-	·	Will be Analyzed for
- 1 1 1		
100		
		<del></del>
105	,,	
105-		
		REMARKS
	· ·	
110		
		COTI DECODIDATON YBDBEALTYATONG
	1	SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown
		Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
		T-tan
115		Gr-grey
i i i	cycled paper	ecology and environment inc. R-red
recyc	na baber	ections and editionishen.

Well Log # 121
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/30/81
Prepared By M. Hanley

Depth, Ft. (M)	Soil Description	Well No.	(W-7) S-7	
	Blow Counts/6"	Location	Woburn, M.	A
	•			
			U.S. EPA	
4116		Ground Ele		
11-11			eo-Metrics,	
	•	Drilling C	ompleted 6/2	1/81
		Type of Ri	g Truck Mou	nted
			- WELL DATA	
N	Fill 1-7-11-9	Well Diam.		
	riii 1-/-11-9		28	- <del></del>
			m. 1.4" ID	
$\mathbb{N}/\mathbb{N} + \mathbb{N}$			ting 4'-28'	0 7710
5 X EXX	Fill 2-6-8-5	Screen Typ	e Schedule 8	O PVC
$\mathbb{K} \times \square \wedge \mathbb{X}^{c}$		77 11 m	0.01" Slot	
		werr Type	Monitoring er Level 4'	W
			red 10/30/8	
			ATER QUALITY	
	Gr. fine-med sand overlying R-Y clays	Samples Ta	kan Van X	No
0	silts and sand with angular gravel	No. of Sam		
2-0-1-0	pieces		mples Prior:	1+27
	•	Pollutar		LLY
	Till 11-20-23-24			
		Date Sampl	ed	
		Samplers		
5	M-C Br. sand trace silt over		alyzed for	<del></del>
	BrG. silt sand and cobbles			
			<del></del>	
	Till 70-48-54-100	<del></del>	<del></del>	
$\times \times \square \times \times$		<del></del>		
$  \mathbf{x} \times \mathbf{x}   \mathbf{x} \times \mathbf{x}  $				
01 X		Sampled	for Volatile	•
× <sub>×</sub> ×   × <sub>×</sub> ×			11/3/81	
x				
<sub>x</sub> x <sub>x</sub>    <sub>x</sub> x <sub>x</sub>				
1 ^ L_1 ^ L_1	Bedrock			_
x <sup>x</sup> x  x <sup>*</sup> x				
5 x x x x				
10 01 1 1				
xx  xx		R	EMARKS	
$x^{\times}$				
	·			
o{				
			RIPTION ABBR	
		Trace 0-10		Br-brown
	·	Some 10-40		Bl-blaci
	•	And 40-50	% F-Fine	Y-yellow
1 1 1 1				
5-			•	T-tan Gr-grey

	ECOLOGY AND ENVIRONMENT, INC.  30 East Cummings Park Woburn, MA 01801	Well Log # 120/1 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared 11/30/81 Prepared By M. Hanley
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W-8) S-8 Location Woburn, MA
		Owner U.S. EPA Ground Elev.45' MSL Driller Geo-Metrics, Inc. Drilling Completed 7/25/81 Type of Rig Truck Mounted
	Fill 1-2-3-4	Well Diam. 1.4" ID Depth 128.5' Screen Diam. 1.4" ID Screen Setting 4'-128.5'
5	F-M Br Sand 8-12-14-16	Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring
10	F Orange sand, trace of silt 4-6-5-3	Static Water Level 2' Date Measured 10/30/81 WATER QUALITY Samples Taken Yes X No No. of Samples Type of Samples Priority
15	Orange F sand silt, with thin layers of clay 2-6-7-8	Pollutants  Date Sampled 11/30/81
20	F-M Br sand 1-2-3-3	Sampled for Volatile. Organics 11/3/81
25	no recovery 6-5-5-5	
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M-C sand with some cobbles 4-3-5-7	SOIL DESCRIPTION ABBREVIATIONS
35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C sand and gravel trace of silt	Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey R-red

Well Log # 120/2

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared

Prepared By M. Hanley

n (V)	Cail Bass to the	11-11 No	/ TZ 0\ 5	0
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No Location	(W-8) S-	-8 .
	Blow Counts/6	Location		
	<b>*</b>	Owner U.	S. F.P.A	
0-1-0		Ground Elev.		<del></del>
$\Box \rho \Box \overline{\gamma}$		Driller Geo		Inc.
		Drilling Com		
10 H 0		Type of Rig		nted
			VELL DATA	
40	C sand and gravel trace of silt	Well Diam. 1	.4" ID	
	13-10-12-15	Depth		
		Screen Diam.		
$  \div \mathcal{O}   \square  $		Screen Setti		
0		Screen Type_	Schedule 8	O PVC
			.01" Slot	
45	C sand and gravel some sand	Well Type Me		
	14-11-11-11	Static Water		
		Date Measure		<del></del>
$ \mathcal{O}- $		WAT		
1::0 <b>1</b> 0		Samples Taker	n Ye <b>s</b>	
O: H =	Br. C sand and gravel some silt	No. of Sample		<del></del>
50 0	24-26-76-50	Type of Samp	les	<del></del>
	2. 20 . 0 50		<del></del>	<del></del>
		Date Compled		
		Date Sampled Samplers		
		Will be Anal	waed for	
55 0 0	Gr. gravel, some sand and silt	WIII OC IMIGI,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>
°°   0	17-21-26-36			
				<del></del>
-0    a-				<del></del>
			···	
60	C Gr sand with trace of silt (few			
-0 H 0-	thin layers) grading to fine silt and clay 29-30-36-30			
	and Clay 29-30-30-30			
1:0:日-公				
10-1-01				···
65	Gr silt, sand and gravel, trace of			
	clay 34-50-66-78	REM	ARKS	
トドラロウニ			· · · · · · · · · · · · · · · · · · ·	
	•			
_   \	T sand and gravel, some silt, trace			
70 _ 0 - 0	of clay 141-187	COTT DECORE	DWION 4777	ロジナ みかて ヘン・ク
[O::HO::	•	SOIL DESCRI		
	•	Trace 0-10%	C-Coarse	Br-brown
[0 × H× * ]		Some 10-40% And 40-50%	M-Medium F-Fine	Bl-black Y-yellow
			r-rine	T-tan
[6:日本	No Recovery wash-med-fine sand 8-25-	47-80	~	Gr-grey
751 recycled pare	aper	ecology and en	ironment inc	R-red
recycled paper	<u> </u>	ecology and env	environment	<u> </u>

Well Log # 120/3
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Do	neh Fe (M)	Soil Description	Well No. (W-8) S-8	
De	pth, Ft. (M)	Blow Counts/6"		
		blow coddits/6	Location	·
1		•	Owner U.S. EPA	
	·O.T []:0:T]		Ground Elev.	
	しの日かり			
			Driller Geo-Metrics, Inc.	
	×		Drilling Completed	
	0 0	Br-T sand and gravel, trace of clay	Type of Rig Truck Mounted WELL DATA	
80-	O O	25-40-40-40		
	1.0 H-31		Well Diam, 1.4" ID	
		·	Depth	
	· :0: H · O		Screen Diam. 1.4" ID	
	0- 0-		Screen Setting	
	_ <b>0</b> □0	Br-T C-sand and gravel trace of silt	Screen Type Schedule 80 PVC	
85-	いい日かに	and clay 10-16-25-25	0.01" Slot	
•	C   H - O	and 544) 15 15 55 25.	Well Type Monitoring	
	:-U: - :0:		Static Water Level	
	0 0		Date Measured	
			WATER QUALITY	
			Samples Taken Yes No	
90-		Br. C-sand and gravel trace of silt	No. of Samples	
30		14-15-16-21	Type of Samples	
	0-1-0	_		
	「プロー0」			
			Date Sampled	
	0		Samplers	
95-		no sample recovery 17-28-26-25	Will be Analyzed for	<del></del>
957	-~ H 0		•	
	0 -			
	-01	m 0 1 1 .1 .1 .1.		
100	[.O.	T C sand and gravel some silt,		
1007		trace of clay 20-47-58-60		
	: o : □ · · · ·	•		
		,		
l	:-Ч ⊞ : ਨ			
}		a. a		
		Gr. C. sand and gravel some silt,		
105		trace of clay 77-207 for 6"		
·			REMARKS	
	:0:: □:0::			
l	$\square \circ \square$ $\cap \square$	•		
		Cm C cond and amount smalles be		
		Gr. C. sand and gravel grading to fine sand 24-30-33-27		
110		rine sand 24-30-33-2/		
	$\bar{p} = 0$		SOIL DESCRIPTION ABBREVIATION	ONS
ľ	アクロドニ		Trace 0-10% C-Coarse Br-bro	
į	- 0:1	,	Some 10-40% M-Medium Bl-bla	
	0: 1		And 40-50% F-Fine Y-yell	
	ŀ÷0.'□ 'n``·	GrT C sand and gravel some silt,	T-tan	
115-		trace of clay 20-23-26-20	Gr-gre	v
	rec <b>VCf6/8/8/8/</b>	-	ecology opposition results and secology oppositions are secology of the secolo	- 3
	. 50, 5100 pape			

Well Log # 120/4
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

		Prepared By M. Hanley
Depth, Ft. (M	) Soil Description	Well No. (W-8) S-8
	Blow Counts/6"	Location
1: • •: •! • • • •	,	
o -	,	Owner U.S. EPA
		Ground Elev.
:::::::::::::::::::::::::::::::::::::		Driller Geo-Metrics, Inc.
$\square \square \square \square \square$	·	Drilling Completed
0	Gr. C. sand and gravel with trace	Type of Rig Truck Mounted
120 + O	of silt and clay 43-103-105-89	Well DATA
0	,	Well Diam. 1.4" ID Depth
		Screen Diam. 1.4" ID
0 0		Screen Setting
××⊟××		Screen Type Schedule 80 PVC
x H X	Bedrock	0.01" Slot
125 X X X X X		Well Type Monitoring
$ x^{X} \times   x^{X} \times  $		Static Water Level
		Date Measured
x <sup>x</sup> x x <sup>x</sup> x		WATER QUALITY
		Samples Taken Yes No
130		No. of Samples
1307		Type of Samples
		Date Sampled
		Samplers
135	· ·	Will be Analyzed for
140-	·	
170		
	·	
145-		
		DEVANUA
		REMARKS
150		
		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
	,	Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
155-		T-tan
j 1 1		Gr-grey
recycled ba	d Saber	ecology and raving many inc. R-red
		• • • • • • • • • • • • • • • • • • • •

T-tan

R-red

ecologicondaentiranimamiene.

Gr-grey

Well Log # 130

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 12/15/81 Woburn, MA 01801 Prepared By M. Hanley (W-9)S-9Well No. Soil Description Depth, Ft. (M) Blow Counts/6" Location Woburn, MA U.S. EPA Owner Ground Elev. 43' MSL Driller Geo-Metrics, Inc. Drilling Completed 7/30/81 Type of Rig Truck Mounted ----- WELL DATA -----Well Diam. 1.4" ID Gravel and Boulders, (Fill) Depth 65' Screen Diam. 1.4" ID Screen Setting 4-65' Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level 1'11" Date Measured 10/30/81 ---- WATER QUALITY -Samples Taken Yes x B1-Br silt and sand, some gravel No. of Samples 3-3-3-3 Type of Samples Priority Pollutant Date Sampled 12/2/81 Samplers Cook, Hanley 15clean sand overlying peat 3-3-3-3 Will be Analyzed for 20-Peat 2-2-1-2 4" Peat, grading to G-B silt and 25 clay WR-1-1-2 REMARKS G F sand and silt, tr of sand and 30 clay 5-7-7-5SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow

T C sand with thin layers of gravel

tr silt and clay 16-8-5-4

Well Log # 13C

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared

Prepared By M. Hanley

		DIOW COUNTRIAN	Location		
		Blow Counts/6"	nocation		
		v	Owner U.	S. EPA	<del></del>
C	o - □ o · ·		Ground Elev.		
	0 - 0				Tne
<u>خ</u> ا			Driller Geo Drilling Com		inc.
٠.١		•			
1.			Type of Rig	TELL DATA	nrea
- 1 -		Br C sand and gravel some silt			
401.		_	Well Diam. 1	.4 10	
			Depth	1 (11 75	
.0	7 <del>  -  </del>		Screen Diam.		
نــا	· O O.		Screen Setti		<u> </u>
10	O = O	Boulder	Screen Type		O PVC
1	000		0	.01" Slot	
45	2 0	Br-Y C sand and gravel tr silt 140/6"	Well Type M	lonitoring	
بالم	o = o		Dedete Macet	. DCVCI	
:			Date Measure		
۱.۷			WAT		
\	`∙•⊟••⊹		Samples Take		No
1 7	2 0.	Pm (1 1 1 1 + 1 10 10 16	No. of Sampl	es	
50	$\circ \square_{o}$	Br C sand and gravel tr silt 18-19-16	Type of Samp	les	· · =- · · · · · · · · · · · · · · · · ·
10		Core Boulder		<del></del>	
	つ 🖯 (기		Date Sampled	l	
-	2- 0-		Samplers		
:.C	7. III ' ' ' ' '	C	Will be Anal	yzed for	
55 →		G sand, silt and gravel 170-170			
÷/	5-11-01				
1		•			
1.0	2-: [-] [6: ]				
	-5-51				
60 <del>  3</del>	<del>-</del>	•			
	x	•			
×	× □ * x ` l	Bedrock			
نر	××==×××	pedrock	,		
ŀ	x XXI				
×	公田以				
65 X	<u>``</u>				
			REM	IARKS	
- 1		•		<del></del>	
- 1					
}					
70-					
′•7			SOIL DESCRI	PTION ARRE	EVIATIONS
- 1			Trace 0-10%		Br-brown
)		•	Some 10-40%		Bl-black
			And 40-50%	F-Fine	Y-yellow
- 1			AUG 40-30%	I LINE	T-tan
					ı LAU
75-	F-1 1	•		•	Gr-grey

131 Project Name Woburn Well Survey

Well Log #

TDD F1-8010-03A 30 East Cummings Park Project # Date Prepared Woburn, MA 01801 12/15/81 Prepared By M. Hanley (W-10)S-10Well No. Depth, Ft. (M) Soil Description Woburn, MA Blow Counts/6" Location Owner U.S. EPA Ground Elev. 82.5' MSL Driller Geo-Metrics, Inc. Drilling Completed 7/17/81 Type of Rig Truck Mounted
----- WELL DATA -----Well Diam. 1.4" ID Top soil, sand and gravel 2-3-12-22 87 Depth Screen Diam. 1.4" ID Screen Setting 4'-87' :o:<sub>0</sub> Screen Type Schedule 80 PVC Gr F-M Sand, some broken cobbles 0.01" Slot 32-54-100/5" Well Type Monitoring Static Water Level 40'5" Ū: Date Measured 10/30/81---- WATER QUALITY Samples Taken Yes x Gr Silt, sand gravel 59-39-38 No. of Samples Type of Samples Priority Pollutant 0 Ο: Date Sampled 12/3/81 .0 0 Samplers Cook, Palermo :O: T Cs sand, and gravel 5-8-11-14 15 Will be Analyzed for Ö .0 0.: ::0 0.0 T-Br Cs sand and gravel 11-14-14-17 1.0. 20 ∵0`. :O`∵ T-Br Cs sand 8-11-15-16 25 REMARKS T m sand 8-10-14-16 304 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T m sand 7-12-15-27 T-tan 35 Gr-grey rec (Clac les perper -cologue propient in the propient of the R-red

ECOLOGY AND ENVIRONMENT, INC.

Well Log # 131
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Depth, Ft. (M)	Soil Description	Well No. (W-10) S-10
	Blow Counts/6"	Location
	•	Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
		Type of Rig Truck Mounted
40	T m-cs sand 8-10-12-14	Well Diam. 1.4" ID
<b>"</b> "		Depth
-:		Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC
		0.01" Slot
45	T silt and F sand, tr of clay	Well Type Monitoring
70  -	8-10-12-12	Static Water Level
		Date Measured
		WATER QUALITY
		Samples Taken Yes , No
		No. of Samples
50	T M-Cs sand 8-12-15-16	Type of Samples
		*
		Date Sampled
		Samplers
	T V G 1701010	Will be Analyzed for
55	T M-Cs sand 7-8-10-10	
	T F-M sand 7-17-16-17	
60	1 1-r Salu /-1/-10-1/	
	T F-M sand 9-15-18-26	
65		REMARKS
		CARRIAN
70	T M-Sand, some silt 13-14-19-20	
		SOIL DESCRIPTION ABBREVIATIONS
=======================================		Trace 0-10% C-Coarse Br-brown
	•	Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
- <u>-</u> -	m a	T-tan
75	T-G varved silt and clay 8-12-20-20	Gr-grey
recy <b>cles</b> recycles	<del>g</del> eper	ecologic grant and the second
		crows, and changing he. " Too

Well Log # 131
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Da		(w)		Soil Description	Well No. (W-10) S-10
De	pth, Ft.	· (H)	•	Blow Counts/6"	Location
				Blow Country o	Location
			Ī		Owner U.S. EPA
					Ground Elev.
					Driller Geo-Metrics, Inc.
	l× 🖂	<b> </b>			Drilling Completed
	X	X			Type of Rig Truck Mounted
		X			WELL DATA
80-	X  =	11	Bedrock		Well Diam. 1.4" ID
	l XI		pedrock		Depth
	X 🗀	X			Screen Diam. 1.4" ID
	x  =	X			Screen Setting
	I. / H				Screen Type Schedule 80 PVC
0.5	X	X			0.01" Slot
85-	l XE	X	•		Well Type Monitoring
		\( \cdot \)			Static Water Level
					Date Measured
					WATER QUALITY
					Samples Taken Yes No
90-		1			No. of Samples
90					Type of Samples
			•		Date Sampled
					Samplers
95-				•	Will be Analyzed for
•					
100					·-
				•	
105				Ħ	
					REMARKS
				.•	
110-					
1.07			•		
					SOIL DESCRIPTION ABBREVIATIONS
					Trace 0-10% C-Coarse Br-brown
				•	Some 10-40% M-Medium Bl-black
					And 40-50% F-Fine Y-yellow
115					. T-tan
					Gr-grey
	re	cyclade	d neper	······	ecology og da sulvinovimentacium. R-red

Well Log # \_ 137 Project Name Woburn Well Survey
Project # TDD F1-8010-03A Date Prepared 12/15/81 Prepared By M. Hanley

Depth, Ft. (M	) Soil Description	Well No. (Wll) S11	<del></del>
bepth, rt. (H	Blow Counts/6"	Location Woburn, MA	<del></del>
	Disk States, S	bodderon	
		Owner U.S. EPA	
		Ground Elev. 43' MSL	·
		Driller Geo-Metrics, In	c.
		Drilling Completed 8/4/8	
		Type of Rig Truck Mount	
	Br, M-C sand, some gravel 2-1-4-6	WELL DATA	
0:     0:	21, 11 0 24114, 20112 814101 2 1 4 0	Well Diam. 1.4" ID	
::0:		Depth 86	
io -		Screen Diam. 1.4" ID	
		Screen Setting 4'-86'	
		Screen Type Schedule 80	PVC
5 7 :	Br-Y, C sand, gravel, trace of silt	0.01" Slot	
	16-16-15-40	Well Type Monitoring	<del></del>
· · · O     · · · · ·	33 33 13	Static Water Level 2'	<del></del> -
万.: 日.0 :		Date Measured 10/30/81	
		WATER QUALITY -	
: <u>-</u> :0      :::	Br-Y, F-M sand, trace of silt,	Samples Taken Yes x	
1어 : : '' [ - <sup>()</sup> : 기	some gravel 33-25-26-23	No. of Samples 5	. ——
10.11	bome graver 33 23 20 23	Type of Samples	
O HO.	•	Priority Pollutant	
		Date Sampled 12/3/81	· <del></del>
		Samplers Cook, Palermo	·
151.00 11.00	Br-T gravel, some F-M sand, trace	Will be Analyzed for	
	silt 20-19-13-9		
ᅇᅼᇬ	C gravel, some F-M sand, silt		··
$ \cdot\rangle$	4-3-8-10		
	,		
0.			
25 - 0 - 0	F-C gravel, some F-M sand, silt		
[o. H.o. ol	13-14-14-12		
$ \cdot\rangle_0 \square_{\lambda}$		REMARKS	
10:H0.0.1			
3010	Br-Y gravel and C sand, trace silt		
30 0 : - 5	50-36-25-20		. •
0, 10,		SOIL DESCRIPTION ABBREV	IATIONS
		Trace 0-10% C-Coarse B	r-brown
	•	Some 10-40% M-Medium B	1-black
lo Holl			-yellow
351 0 0 0	M-C gravel 5-5-7-8		-tan
			r-grey
100 PB450 (PB)	aha.	and the state of t	-red

Well Log # 137
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

<del> </del>		
Depth, Ft. (M)	Soil Description	Well No. (Wu) S11
<u> </u>	Blow Counts/6"	Location
<del>द्रानामान</del> ्यन	·	Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
	•	Type of Rig Truck Mounted
	Pro C cond come amount trace of the	WELL DATA
40 0	Br, C sand, some gravel, trace silt 29-36-18-50	Well Diam. 1.4" ID
	29-30-10-30	Depth
		Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC 0.01" Slot
45	Br, C sand (wash?) 7-12-18-23	Well Type Monitoring Static Water Level
		Date Measured
		WATER QUALITY
		Samples Taken Yes No
		No. of Samples
50		Type of Samples
	Br, M-C sand, trace silt 2-5-20-60	1) po 01 0 amp 100
	•	
		Date Sampled
		Samplers
		Will be Analyzed for
55	Br-Y, M-C sand, silt and clay	
	5-15-25-50	
0	3 13 23 30	
0		
60 0 0	Br, C sand and gravel 29-28-34-46	
		<u> </u>
Q0-		
0		
10-2 -0.1	m	
65 7	T, gravel, some sand, silt 22-19-20-24	REMARKS
0 -0-	22-19-20-24	Mirado
30 H3 0		
الع بحالة والع		
70-0-0	T, gravel, some silt, sand	
00	17-10-17-23	SOIL DESCRIPTION ABBREVIATIONS
-o日-o		Trace 0-10% C-Coarse Br-brown
10° H 79.1	•	Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
		T-tan
75	T, gravel, some silt, sand 30-100	Gr-grey
recipitation	paper	ecologylogyd medireninen mine. R-red

ECOLOGY AND ENVIRONMENT	, INC.
30 East Cummings Par	k
Woburn, MA 01801	

Well Log # 137

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared 12/15/81

Prepared By M. Hanley

					·
Do.	B+ (M)	So	il Description	Uall Many	
De	pth, Ft. (M)	B1.	ow Counts/6"	Well No. (WII) S11	<del></del>
		DI	ow Country o	Location	<del></del>
1	$\times \times \square \times \times$		,	Owner U.S. EPA	
	^x^  = ^x^			Ground Elev.	
	×צ='××	Bedrock			T
	_x			Driller Geo-Metrics,	inc.
	$\stackrel{\sim}{\times} = \stackrel{\sim}{\times} \stackrel{\sim}{\times}$			Drilling Completed	
	x <sup>x</sup> x日*x^	•		Type of Rig Truck Mou	ntea
80-	$  \times \square \times \times  $			TALL DATA	
			•	Well Diam. 1.4" ID	· <del></del>
1	* , <b>x</b>			Depth	<del></del>
	××=×××			Screen Diam. 1.4" ID	
- 1	X     \ \			Screen Setting	0 840
	X			Screen Type Schedule 8	U PVC
85-	**×\=\*\^\*\		•		
1				Well Type Monitoring	
				Static Water Level	
				WATER QUALITY	
}				Samples Taken Yes No. of Samples	No
90-					- <del></del>
			•	Type of Samples	<del></del>
					<del></del>
ſ				Date Sampled	<del></del>
,					
Ì				Samplers Will be Analyzed for	<del></del>
95-				will be Analyzed for	· · · · · · · · · · · · · · · · · · ·
				<del></del>	
					····
}					
100					<del></del>
1			•		
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İ					<del></del>
1					
105			<del>- 7</del>	<del></del>	<del></del>
				REMARKS	<del></del>
ľ	1 1	.•			<del></del>
İ				<del></del>	
110-					
ł				SOIL DESCRIPTION ABBR	EVIATIONS
				Trace 0-10% C-Coarse	
			•	Some 10-40% M-Medium	
				And 40-50% F-Fine	Y-yellow
					T-tan
115				•	Gr-grey
ı	recy <b>eracies</b> b	paper		ecologyogych advinocimenteine.	R-red

Well Log # 132
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

Depth, Ft. (M)	Soil Description	Well No. (W-12) S	
	Blow Counts/6"	Location Woburn, M	IA
		Owner U.S. EPA	<del></del>
		Ground Elev. 41' MSI	
111		Driller Geo-Metrics	
		Drilling Completed 8	
[] []		Type of Rig Truck M	
rod Ho		WELL DAT	4
Peat fi	11 1/12"-3-4	Well Diam. 1.4" ID	••
	d 1/12"-3-4	Depth 59.5	<del></del>
	, ·	Screen Diam, 1.4" ID	<del></del>
		Screen Setting 4'-59	
		Screen Type Schedule	
5 Y-B F-	M sand 7-8-8-8	0.01" S1o	
		Well Type Monitorin	
		Static Water Level	
		Date Measured 10/307	
		WATER QUALI	
		Samples Taken Yes	
0	1 sand 14-5-5-6	No. of Samples	<u>x                                    </u>
	. dana 1. 3 3 0	Type of Samples	
		Priority Pollutant	
		Triority rollucant	<del></del>
		Date Sampled 12/3/81	·
		Samplers Hanley, Co.	
5 T F-M	sand 6-7-6-7	Will be Analyzed for	
		will be analyzed for	
15日本1			
	·	<del></del>	<del></del>
D T F-M s	sand 2-2-4-5	<del></del>	<del></del>
		<del></del>	<del></del>
			<del></del>
			<del></del>
			<del></del>
5 T F-M s	and 1-4-7-8		
1			<del></del>
		REMARKS	<del></del>
		<del></del>	
		<del></del>	
G. silt,	tr. sand 5-7-6-8	<del></del>	
'1::::'님:::':			
		SOIL DESCRIPTION ABO	RREVIATIONS
l:::: 日:::·l		Trace 0-10% C-Coarse	
	,	Some 10-40% M-Medium	
1::::: <b>日</b> ::::1	·	And 40-50% F-Fine	Y-yellow
		NIT TO WOL-OH	T-tan
` •`•\ <del> </del>  .'. `:	sand 2-6-7-7		Gr-grey
· · · · · · · · · · · · · · · · · · ·		ecologylogyl andirentrantning.	R-red

Well Log # 13L
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Dank Pr	(w)	Cail Danai bia	Well No.	(W-12) S-	12
Depth, Ft	· (M)	Soil Description Blow Counts/6"	Location	( 11 12 ) 5 -	<del></del>
		Blow Counts/6	Location		<del></del>
		•	Owner U.	S FDA	
			Ground Elev.		
			Driller Geo		Inc
			Drilling Com		Inc.
			Type of Rig		nt ed
				WELL DATA	
40		B-R F-M sand 3-7-7-8	Well Diam. 1		
		- 1. 1. Cana O , , C	Depth		
	<u> </u>		Screen Diam.	1.4" ID	
ō~	0		Screen Setti		
ヹ゙゙゠゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゚ゔ゚゚゠゠゚	7)		Screen Type		O PVC
				.01" Slot	
45 - 5	0-∷	Gr-T silt and clay, some gravel	Well Type M		<del></del>
lō÷. Η	O	8-13-26-100/4"	Static Water		
- <u>o</u> =			Date Measure		
<u> </u>	.: <u>.</u>		WAT		
-0-	O		Samples Take	•	and the second s
	<u>ن</u>		No. of Sampl		
50 0-0	~~0	G-Br sand, gravel and cobbles	Type of Samp		
	0.0	26-100/2"	•	<del></del>	<del></del>
I××H	XX	•			
<sub>×</sub> × <sub>×</sub>	x x		Date Sampled		
^x^日	^x^		Samplers		
x^x	x x		Will be Anal	yzed for	
551× 🖂	××	Bedrock			
33 X X	^x^				
x <sup>x</sup> x	x,×				
×× ⊟	××				
x×x	××				
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60-			<u> </u>		
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				<del> </del>	
	1				
65	1				
	•		REM	ARKS	<del> </del>
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	l		<del></del>	- <del></del>	
					<del> </del>
_				·····	<del> </del>
70-	†		0011 55005-	DWION +222	
			SOIL DESCRI Trace 0-10%	C-Coarse	
	- 1		Some 10-40%	M-Medium	Br-brown Bl-black
			And 40-50%	m-medium F-Fine	Y-yellow
			AUG 40-30%	r-rine	T-tan
75				•	Gr-grey
75-	e evelage	paper	ecology and	denument :	
Tecy	cied habe	···	ecolose sud us	<del>╱</del> ┿ <del>┞╃╟</del> ╫┾╫╏ <sup>с</sup> ╴	R-red

Well Log # 135
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

Depth, Ft. (	M) Soil Description	Well No. (W-13) S-13
	Blow Counts/6"	Location Stoneham, MA
		Owner U.S. EPA
		Ground Elev. 79' MSL
11 11		Driller Geo-Metrics, Inc.
		Drilling Completed 6/25/81
		Type of Rig Truck Mounted
┍╼╁┥╶┼┳╌	Br fill-sand & gravel 2-9-16-11	WELL DATA
$X \cup Y \cup X \cup X$	A pr 1111 pana a graver 2 y 10 11	Well Diam. 1.4" ID
$\bigvee$ $\bigvee$ $\bigvee$ $\bigwedge$	V	Depth 20'
$\triangle$ /1   X	λ	Screen Diam. 1.4" ID
$\langle X \mid X \rangle$	•	Screen Setting 4'-20'
$X \times X = Y$	Y	Screen Type Schedule 80 PVC
$V \lor \Box / \lor$	Br fill-sand, some gravel 7-7-11-8	0.01" Slot
$\$	bi iiii sand, some graver /-/-ii-o	Well Type Monitoring
$\Lambda / \exists X$	λ	Static Water Level 8'11"
$(X \boxminus / Y$	1	Date Measured 10/26/81
$X \times X = X \times X$	<b>\</b>	WATER QUALITY
$YY \boxminus X$	$\Lambda$	Samples Taken Yes x No
$X \rightarrow X$	Gr sand & gravel, some silt	No. of Samples 5
<i>*,*</i>	4-60-100	Type of Samples
xx 目xx	·	Priority Pollutant
x* x 🗏 x* x	}	rriority rotidiant
`x`\\\\		Date Sampled 12/1/81
×		Samplers Fucarile, Porter
x <sup>x</sup>	Bedrock	Will be Analyzed for
`x		will be Allaryzed for
× × <del></del> × ×	·	
x X = x x		
_X_		
. × . 🖃 ´ × `		<del></del>
^ ^ = × ^		
1 1		
1 1		
	[	
		REMARKS
		SOIL DESCRIPTION ABBREVIATION
		Trace 0-10% C-Coarse Br-brow
1 1		Some 10-40% M-Medium Bl-blad
		And 40-50% F-Fine Y-yello
		~ T-tan
acycle.	dhaner	Gr-grey
recycles to	thetho:	ecology and impremient inc.

ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801

Well Log # \_\_\_136 Project Name Woburn Well Survey
Project # TDD F1-8010-03A Date Prepared 12/15/81 Prepared By M. Hanley

Depth, Ft. (M) Soil Description	
Blow Counts/6"	Location Stoneham, MA
	Owner U.S. EPA
	Ground Elev. 48' MSL
	Driller Geo-Metrics, Inc.
	Drilling Completed 9/18/81
	Type of Rig Truck Mounted
	LIFT I DATA
Fill, Br sand and gravel 4-9-1	7-12 Well Diam. 1.4" ID
	Depth 64'5"
KX/  K/\/	Screen Diam. 1.4" ID
	Screen Setting 4'-64'5"
(X <b>\</b> ≡ <b>(</b> \X)	Screen Type Schedule 80 PVC
5 X Fill, Br sand 2-2-3-6	0.01" Slot
	Well Type Monitoring
	Static Water Level 8'11"
	Date Measured $10/\overline{26/81}$
	WATER QUALITY
	Samples Taken Yes x No
D Br sand, peat 2-3-3-7(9-10)	No. of Samples 5
O : ☐ O : Br C sand and grave1 (10-11)	Type of Samples
	Priority Pollutant
	Date Sampled 12/1/81
	Samplers Fucarile, Porter
5 T,M-C sand, some gravel 7-10-1	5-15 Will be Analyzed for
	· · · · · · · · · · · · · · · · · · ·
	1
T,M-C sand over silt and grave 4-13-21-22	1
(表示) 4-13-21-22	
	<del> </del>
$5 \cdot O =                                 $	8-17
	REMARKS
	<u> </u>
	10.1/
Br silt, F sand & gravel 14-12	-12-14
	SOIL DESCRIPTION ABBREVIATIONS
	Trace 0-10% C-Coarse Br-brown
	Some 10-40% M-Medium Bl-black
	And 40-50% F-Fine Y-yellow
Br silt, sand & gravel, trace	
10-17-15-25	Gr-grey

Well Log # 136
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/15/81
Prepared By M. Hanley

Depth, Ft	t. (M)	Soil Description Blow Counts/6"	Well No.(WIT) S14 Location	
o_    - o	0 <u>-</u> -0		Owner U.S. EPA Ground Elev. Driller Geo-Metrics,	Inc.
0-1	0 -	The slaw side and success 111 17 20 22	Drilling Completed Type of Rig Truck Mo	unted
0 - 0 -	0.0	Br clay, silt and gravel 11-17-30-33	Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID	
-σ- 			Screen Setting Screen Type Schedule  0.01" Slot	
15			Well Type Monitoring Static Water Level Date Measured WATER QUALIT	
50-7	- 0-	Gr clay, trace gravel 21-30-35-37	Samples Taken Yes No. of Samples Type of Samples	No
00	00		Date Sampled	
55 × X	× ×	Gr clay, silt, sand, gravel 100/5"	Samplers Will be Analyzed for	· · · · · · · · · · · · · · · · · · ·
× <u> </u>	×	Bedrock		
o × ×	××	·		
×	×			
5 × -	X		REMARKS	
0-			SOIL DESCRIPTION ABB	
			Trace 0-10% C-Coarse Some 10-40% M-Medium And 40-50% F-Fine	Bl-black Y-yellow T-tan
75- rec	verexelest	gaper	ecology and environment inc.	Gr-grey R-red

Well Log #

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 12/29/81 Woburn, MA 01801 Prepared By M. Hanley Soil Description Well No. (W 15) S15 Depth, Ft. (M) Blow Counts/6" Location Woburn, MA Owner U.S. EPA Ground Elev. 39' MSL Driller Geo-Metrics, Inc. Drilling Completed 9/17/81 Type of Rig Truck Mounted
----- WELL DATA -----Fill 1-2-10-15 Well Diam. 1.4" ID Depth 41' Screen Diam. 1.4" ID Screen Setting 4'-41' Screen Type Schedule 80 PVC Fill 8-6-8-8 0.01" Slot Well Type Monitoring Static Water Level Date Measured 10/30/81 ---- WATER QUALITY Peat overlying Br, F sand, trace of Samples Taken Yes X silt 1-1-7-7 No. of Samples 5 Type of Samples Priority Pollutant Date Sampled 12/1/81 Samplers Porter and Fucarile Mixture of peat and Br, F sand Will be Analyzed for 4-12-14-14 Gr, C sand grading to Gr, F sand 20 6-7-8-8 Gr, F sand grading to Gr silt . 25 4-4-18-10 REMARKS Gr sand, silt and gravel, some clay 30-(till) 20-20-16-110 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black × And 40-50% F-Fine Y-yellow T-tan Bedrock Gr-grey ecology dayly caniformican rineat R-red

	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 139 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared Prepared By M. Hanley
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W 15) S 15 Location
	•	Owner U.S. EPA
<b>│</b> ** 🗎 **		Ground Elev.
I× x ⊞ <sup>X</sup> ,×		Driller Geo-Metrics, Inc.
x× =x×x		Drilling Completed
X     X	Bedrock	Type of Rig Truck Mounted
		WELL DATA
401××=××		Well Diam. 1.4" ID
<u>^                                    </u>		Depth
		Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC  0.01" Slot
45		Well Type Monitoring
75		Static Water Level
		Date Measured
		WATER QUALITY
		Samples Taken Yes No
		No. of Samples
50		Type of Samples
		Date Sampled
		Samplers
		Will be Analyzed for
55		
	•	
	·	·
60-		
	·	
65-		REMARKS
		REPARKS
•		
70-		
		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
	·	Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow
		And 40-50% F-Fine Y-yellow T-tan
75-		Gr-grey
	l deserve	GI-gley

140

Well Log #

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 12/29/81 Prepared By M. Hanley Depth, Ft. (M) Soil Description Well No. (W 16) S 16 Blow Counts/6" Location Woburn, MA U.S. EPA Owner Ground Elev. 37' MSL Driller Geo-Metrics, Inc. Drilling Completed 9/22/81 Type of Rig Truck Mounted ----- WELL DATA -----Fill 1-2-3-5 Well Diam. 1.4" ID 841 Depth Screen Diam. 1.4" ID Screen Setting 4' - 84' Screen Type Schedule 80 PVC Fill (C-M sand) 3-3-3-5 5 0.01" Slot Well Type Monitoring Static Water Level 6' 7" Date Measured 10/26/81----- WATER QUALITY -Samples Taken Yes x No Fill (C sand) 5-5-5-5 10 No. of Samples 5 Type of Samples Priority Pollutant Date Sampled 12/2/81 Samplers Porter and Fucarile Gr. F sand and silt 2-3-5-615-Will be Analyzed for Gr. M-F sand and silt  $6 \rightarrow 8-10-6$ 20-Gr, F sand and silt grading to silt 25 and clay: 3-5-7-6 REMARKS Gr, F silt with few clay varyes 30-6-8-7-7 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr sand and silt, trace of clay T-tan 3-6-8-7 Gr-grey reterolete apper ecologyonid द्यारा क्रमणहरूका ग्रहत R-red

	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 140 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared Prepared By M. Hanley
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W 16) S 16 Location
	,	Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted
40	Gr sandy silt, trace of clay 5-5-5-9	Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC
45	Gr sand, silt and clay 6-10-8-8	O.01" Slot  Well Type Monitoring  Static Water Level  Date Measured  WATER QUALITY
50	Gr, F-M sand, some silt 8-9-14-16	Samples Taken Yes No No. of Samples Type of Samples  Date Sampled
55	Gr, F sand and silt 6-8-5-5	Samplers Will be Analyzed for
60	Gr sand silt grading to M-C sand with silt and clay 7-8-41-10	
65 0 -0	Gravel, boulders	REMARKS
70 - O O O O O O O O O O O O O O O O O O	Gr, M-C sand, silt, gravel 44-44-40'-50/3"	SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan
75-0 - réegunder	Gr, M-C sand, gravel, cobbles 100/2"	Gr-grey

Gr-grey

R-red

ecologyonda em trappoentient.

Well Log # 140\_ ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared Prepared By M. Hanley Soil Description Well No. ( w 16) Depth, Ft. (M) Blow Counts/6" Location U.S. EPA Owner Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Gr, M-C sand, some gravel and silt 80-Well Diam. 1.4" ID 100/4" Depth Screen Diam. 1.4" ID Screen Setting\_ Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Bedrock Date Measured ----- WATER QUALITY -----Samples Taken Yes No. of Samples 90 Type of Samples Date Sampled Samplers Will be Analyzed for 95 100 105 REMARKS 110 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown M-Medium Bl-black Some 10-40% And 40-50% F-Fine Y-yellow T-tan

115

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Well Log # 142
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 1/6/82
Prepared By M. Hanley

		rrepared by M. Hanley
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W-17) S-17 Location Winchester, MA
	Brow Godines, G	winchester, FA
		Owner U.S. EPA
5, 72		Ground Elev. 40 MSL
		Driller Geo-Metrics, Inc.
{		Drilling Completed 8/20/81
		Type of Rig Truck Mounted
F11	.1, M-C sand and gravel 1-2-1-2	WELL DATA
X'    \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, o band and graves a b b b	Well Diam. 1.4" ID
K M N M		Depth 117'
NMIVI		Screen Diam. 1.4" ID
$ X \sqcup A $		Screen Setting 4' - 117'
_		Screen Type Schedule 80 PVC
5 / Fil	.1, M-C sand and gravel 1-1-1-2	0.01" Slot
		Well Type Monitoring
		Static Water Level 25' 8"
K /\-\ / 1		Date Measured 10/30/81
		WATER QUALITY
40 V X 741	1, M-C sand and gravel 1-2-3-2	Samples Taken Yes X No
10 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	i, m-c sand and graver 1-2-5-2	No. of Samples 5
0.0		Type of Samples Priority Pollutan
		·
		Date Sampled 12/3/81
	M-C sand and gravel 7-23-21-16	Samplers Cook and Hanley
15 00 00 00	o same and graves . to same	Will be Analyzed for
		<del></del>
	,	
20 - Gr	silt 6-7-8-10	
<del>  </del>	•	
25 Gr	silt and clay 5-7-9-11	
	<b></b>	
		REMARKS
<del>  </del>		
1 - 🖽 - 1		
30 Gr	silt, some clay 5-8-10-5	
~~   <b>-</b> -  -	· ·	
		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
<u>-</u>  - -		Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
35Gr	silt, some clay 5-9-9-7	- T-tan
~		Gr-grey
recovide passer	•	ecology तावक्षेत्रकार्यकारमा स्टिंग्स

142

Well Log #

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared Prepared By M. Hanley Depth, Ft. (M) Well No. ( W-17) S-17 . Soil Description Blow Counts/6" Location Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Gr silt, some clay 7-8-10-9Well Diam. 1.4" ID 40 Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Gr silt and clay 9-14-15-4 Well Type Monitoring Static Water Level 0... Date Measured 0  $\cdot \cdot 0$ ----- WATER QUALITY -----0 0: Samples Taken Yes 0. No. of Samples 50∤.0.∵ 0. Br, C sand and gravel 29-22-21-20 Type of Samples ∴0: 0. 0... .0∵ .∵0. Date Sampled Samplers 1.0 Will be Analyzed for ∴0. 55 0: Gr-Br, C sand and gravel 10-20-23-16 :0∵ 0.0 :0∷ ∵.0 :0 0 : 0: . 0. 60 \ 0. · Gr-Br, C sand and gravel 25-17-16-14 0... ᡐ Gr-Br gravel 18-35-24-25 `\_σ REMARKS Gr-Br gravel, some silt 41-40-18-21 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Br clean gravel overlying silt and Gr-grey recommendater gravel 40-60-40-20 ecology and environment inc. R-red

Well Log # 142
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Depth, Ft. (M)  Soil Description Blow Counts/6"  One Description Count Elv. Drilling Completed Well No. (M-17) S-17 . Location  Owner U.S. EFA Cround Elv. Drilling Completed Well DaTA Well Type of Right Well Type Schedule 80 FVC 0.01" Storen Seren Setting Screen Flam. 1.4" ID Screen Flam. 1.4" ID Screen Flam. 1.4" ID Screen Flam. 1.4" ID Screen Flam. 1.4" ID Screen Setting Screen Type Schedule 80 FVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured Water Quality Samples Taken Yes No No. of Samples Type						
Slow Counts/6"  Location  Owner U.S. EPA Cround Elev. Drilling Completed Type of Rig Truck Mounted  Well Diam, 1.4" ID Depth Screen Diam, 1.4" ID Depth Screen Diam, 1.4" ID Screen Setting Screen Type Schedule 80 FVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured Date Measured Date Measured Date Manager Samples Taken Ves No. of Samples Type of Samples  Type of Samples  Date Samplers Will be Analysed for  Date Samplers Will be Analysed for  Date Samplers  Will be Analysed for						
Ounce   U.S. EPA   Ground Elev.   Drilling Completed   Type of Rig   Truck Mounted   Truck M	<u>De</u>	pth, Ft	. (M)	Soil Description	Well No. $(W-17)$ S-1/	
Count Elev.   Driller Geo-Metrics, Inc.   Driller Geo-Me				Blow Counts/6"	Location	
Count Elev.   Driller Geo-Metrics, Inc.   Driller Geo-Metrics   Inc.   D		<del></del>	T	1		
Control   Cont		10- F	10-			
Drilling Completed   Type of Rig Truck Mounted   Type of Rig Truck Nounted   Type of Rig Truck Nounted   Type of Rig Truck Nounted   WELL DATA   Well Diam. 1.4" ID   Deth   Screen Setting   Screen Setting   Screen Type Schedule 80 FVC   O.01" Slot   Well Type Monitoring   Static Water Level   Date Measured   Date M		)— — <del> </del>	$-\sigma$			
Stilling Completed   Type of Rig Truck Mounted   Type of Rig Truck Mounted   Type of Samples   Type		_º -				nc.
Br, M-C sand and gravel, some silt   Well Diam, 1.4" ID   Depth   Screen Diam, 1.4" ID   Depth	'	6 F	1 ~~			
Solit Description Absreviations   Solit Description   Stratured   Solit Description				•	Type of Rig Truck Mount	ted
Date   Samples	80-		-0 -	Br M-C sand and gravel some silt		-~
Screen Diam. 1.4" ID Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured		$\sigma_{-}$	-0-			
Screen Diam. 1.4 In Screen Diam. 1.4 In Screen Setting Screen Sett		· —	٠	23 20 23 20		<del></del>
Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring  Static Water Level  Date Measured  Well Type Monitoring  Static Water Level  Date Measured  No. of Samples  Type of Samples  Type of Samples  Type of Samples  Date Samplers  Will be Analyzed for  Date Samplers  Will be Analyzed for  Date Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  No. of Samples  Type of Samples  Type of Samples  Samplers  Will be Analyzed for  Date Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samples  Type of Samples  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samples  Type of Samples  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samples  Type of Samples  Samplers  Will be Analyzed for  Some Samples  Some Samplers  Will be Analyzed for  Some Samples  Type of Samples  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Date Measured  Samplers  Will be Analyzed for  Some Static Water Level  Samplers  Will be Analyzed for  Some Static Water Level  Samplers  Will be Analyzed for  Some Static Water Level		I				
85			1- '-			DVIC
Static Water Level Date Measured  WATER QUALITY  Samples Taken Yes No No. of Samples  Type of Samples  Some location  Some location  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium B1-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey		-0	0		Screen Type Schedule 80	PVC
Well type Montroling Static Water Level Date Measured  WATER QUALITY  Samples Taken Yes No No. of Samples  Type of Samples  T	85-		$-\sigma$	Br. M-C gravel, some silt 18-23-25-17		
Date Measured  WATER QUALITY  Samples Taken Yes No No. of Samples  Type of			77-			·
90		~	90			
Samples Taken Yes No   No. of Samples   Type o						<del></del>
Br, M-C gravel, some silt 46-24-17-21  No. of Samples Type of Samples Type of Samples  Type of Samples  Date Sampled Samplers Will be Analyzed for  Br, C gravel, some silt, pieces of fractured boulders (?) 16-16-14-11  O		$\vdash \sigma \sqsubseteq$	1_0_		<del></del>	
Type of Samples    Date Sampled   Samplers   Will be Analyzed for		L	1_70_	. '		No
Type of Samples   Date Sampled   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Will be Analyzed for   Date Samples   Samplers   Sampl	90-	0-  -	~	Br, M-C gravel, some silt 46-24-17-21	· · · · · · · · · · · · · · · · · · ·	
Date Sampled Samplers Will be Analyzed for  100		<u> </u>	ļ-~ -	• .	Type of Samples	
Date Sampled Samplers Will be Analyzed for  100		ا ـــ ـــا	<u> </u>			
95			₩ O- ,			
95		<u></u>				<del></del>
100 - 0 - 0   Br, C gravel, some silt, pieces of fractured boulders (?) 16-16-14-11    105 - 0		-0-	-V-			
100 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	95-	ا رك	ا کے ا	Br, C gravel and silt 22-20-16-20	Will be Analyzed for	
100		- <u>,</u>  -	1-5	·		<del></del>
100-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			10_			
Br, C gravel, some silt, pieces of fractured boulders (?) 16-16-14-11  105-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-		<b>-</b> 0	7			
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
100		-0-				
105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100-	\ _ <u>_</u>				
105-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	7-		fractured boulders (?) 16-16-14-11		
105-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0			
105-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 -	1			<del></del>
Br, C gravel, silt, trace of clay  34-30-91-43  REMARKS  REMARKS  110-0  0  0  0  0  0  0  0  0  0  0  0  0		· -	0 ~			
110- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1 -			
REMARKS  110-0000  Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	105-	i				
Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey		1		34-30-91-43	DEMARKS	<del></del>
Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			107		REMARKS	
Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			· -			
Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey		1 - 1		<b>}</b>		
Bedrock 100/1"  SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow  T-tan  Gr-grey			l .			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown  Some 10-40% M-Medium Bl-black  And 40-50% F-Fine Y-yellow  T-tan  Gr-grey	110-		_ ~			·····
Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey				bearock 100/1	COTT DECOSTORION ARDDE	UTATIONS
And 40-50% F-Fine Y-yellow  T-tan  Gr-grey		<b>*</b> , <b>*</b>  -				
And 40-50% F-Fine Y-yellow  T-tan  Gr-grey		xî×				
T-tan  Gr-grey		×	1×2			
115 XX Gr-grey			] × ]			
xyx     x x	115-		IXX		<b>~</b>	
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ECOLOGY	AND	ENV	RON	ÆNT,	INC.
30 Ea	ast (	Cumm i	ings	Park	
Wob	ourn,	MA	0180	01	

Well Log #	142				
	Woburn Well Survey				
Project #	TDD F1-8010-03A				
Date Prepared					
Prepared By 1	1. Hanley				

Depth, Ft. (M)    Soil Description   Blow Counts/6"   Well No.			Prepared By M. Hanley
Blow Counts/6"    Count			( ) 0.17
Bedrock  Owner U.S. EFA  Cround Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted  WELL DATA Well Diam, 1.4" ID Depth Screen Setting Screen Type Schedule 80 FVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  Sould DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bi-black And 40-50% F-Fire Y-yellow T-tan G-G-grey	Depth, Ft. (M)		
Bedrock  Cround Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Betting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  SOIL DESCRIPTION ABBREVIATIONS Trace 0-103 C-Coarse Br-brown Some 10-402 M-Medium Bl-black And 40-502 F-Fine Y-yellow T-tan Gr-grey		Blow Counts/6	Location
Searlock  Ground Elev.  Drilling Geometrics, Inc. Drilling Gompleted Type of Rig Truck Mounted  Well Diam. 1.4" ID Bepth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Mater Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Type of Samples Will be Analyzed for  Some Samples Will be Analyzed for  Soll Description Abbreviations Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fire Y-yellow T-tan Grargey	XXLXX		Owner II.S. EPA
Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 30 FVC O.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Type of Sampled Samplers Will be Analyzed for  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fire Y-yellow T-tan Gr-grey		Sedrock	
Drilling Completed   Type of Rig Truck Mounted   WELL DATA   Well Diam 1.4" ID   Depth   Screen Diam 1.4" ID   Screen Setting   Screen Type Schedule 80 PVC   O.01" Slot   Well Type Monitoring   Static Water Level   Date Measured   WATER QUALITY   Samples Taken Yes   No   No. of Samples   Type of Samples   Type of Samples   Type of Samples   Will be Analyzed for   Will be Analyzed for   South 145	1 ^5^ [T] X `` [		
Type of Rig Truck Mounted			
WELL DATA			
Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Date Measure ——WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% T-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			WELL DATA
Depth   Screen Diam. 1.4" ID   Screen Setting   Screen Setting   Screen Setting   Screen Setting   Screen Type Schedule 80 FVC   O.01" Slot   Well Type   Monitoring   Static Water Level   Date Measured   Date Measured   Twenty   Monitoring   Static Water Level   Date Measured   Twenty   Monitoring   Static Water Level   Date Measured   Twenty   Monitoring   Static Water Level   Date Samples   Twenty   Monitoring   Scatic Water Level   Date Samples   Twenty   Monitoring   Samples   Twenty   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Type of Samples   Will be Analyzed for   Mill be Analyzed for   Samplers   Will be Analyzed for   Type of Samples   Type of Sam	1207		Well Diam. 1.4" ID
Screen System   Screen Type   Schedule   80 PVC			
Screen Type Schedule 80 FVC  O.01" Slot Well Type Monitoring Static Water Level Date Measured  WATER QUALITY Samples Taken Yes No No. of Samples  Type of Samples  Date Sampled Samplers Will be Analyzed for  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
125   Well Type   Monitoring   Static Water Level   Date Measured   MATER QUALITY   Samples Taken Yes   No   No. of Samples   Type of Samples   Type of Samples			
Well Type   Monitoring   Static Water Level   Date Measured   WATER QUALITY   Samples Taken   No. of Samples   No. of Samples   Type of Samples			
Well Type Monitoring Static Water Level Date Measured	125		
Date Measured			Well Type Monitoring
Samples Taken Yes No   No. of Samples   Type of Samples			
Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
No. of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
Type of Samples  Date Sampled Samplers Will be Analyzed for  Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
Date Sampled Samplers Will be Analyzed for  Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	130-		Tune of Camples
Samplers			Type of Jampies
Samplers			· · · · · · · · · · · · · · · · · · ·
Will be Analyzed for    140-			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	135	·	Will be Analyzed for
REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			**************************************
REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
REMARKS  SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	140-		
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	145		
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			REMARKS
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			**************************************
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey	150-	·	
Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey			
And 40-50% F-Fine Y-yellow T-tan Gr-grey			
T-tan Gr-grey		•	
Gr-grey			•
			<u> </u>
	recycled pape	aper	

Well Log #

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 1/6/82 Prepared By M. Hanley Soil Description Well No. (W-18) S-18 Depth, Ft. (M) Blow Counts/6" Location Winchester, MA Owner U.S. EPA Ground Elev. 27 MSL Driller Geo-Metrics, Inc. Drilling Completed 9/10/81 Type of Rig Truck Mounted ----- WELL DATA -----Topsoil 1-2-1-2 Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting 4'-155' Screen Type Schedule 80 PVC C sand and gravel interbedded with 0.01" Slot peat 2-3-3-2 Well Type Monitoring Static Water Level Date Measured 10/30/81 ----- WATER QUALITY -Samples Taken Yes x C sand and gravel interbedded with No. of Samples peat 3-6-9-8 Type of Samples Priority Pollutant Date Sampled 12/1/81 Samplers Porter and Fucarile Gr. F sand and silt 2-4-5-6Will be Analyzed for Gr, F sand and silt 5-4-4-520 ₺ Gr, silt and silty sand 6-6-8-6 REMARKS

Gr, sand and silt, trace of clay recorded appear 5-8-9-9

Gr, silt and sand, some pebbles

6-7-7-6

SOIL DESCRIPTION ABBREVIATIONS
Trace 0-10% C-Coarse Br-brown
Some 10-40% M-Medium Bl-black
And 40-50% F-Fine Y-yellow

- T-tan
Gr-grey
ecology by and anymenties R-red

Gr-grey R-red

ecology and environment, inc.

Well Log # 141
Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared Prepared By M. Hanley Well No. Depth, Ft. (M) Soil Description Blow Counts/6" Location Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted
----- WELL DATA -----Well Diam. 1.4" ID 40 Gr, F sand and silt 7-8-7-8Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot 45 - ∙ Well Type Monitoring Gr, F sand and silt 10-11-12-17 Static Water Level Date Measured ----- WATER QUALITY -----Samples Taken Yes No. of Samples 50-Gr, F sand and silt 6-6-6-5Type of Samples Date Sampled Samplers Will be Analyzed for Gr, F sand and silt, trace 55 of clay 10-7-8-10 Gr, F sand and silt 5-6-6-560-1-Gr silt 6-9-11-15 65-REMARKS Gr silt with varves of clay 6-9-11-15 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan

Gr silt, trace of clay 9-9-6-9

ecology and an vironment inc. R-red

	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 141 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared Prepared By M. Hanley
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W-18) S-18 .
80	Gr, F sand and silt 8-8-8-18	Owner U.S. EPA  Ground Elev.  Driller Geo-Metrics, Inc.  Drilling Completed  Type of Rig Truck Mounted
85	Gr, F sand and silt 8-10-13-17	Screen Setting Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring Static Water Level Date Measured
90	Gr, F-M sand overlying Gr, F sand with some silt 16-18-24-35	No. of Samples Type of Samples  Date Sampled
95-	Gr, M-C sand with some F sand and silt overlying Br, F sand and silt 7-13-23-	Samplers Will be Analyzed for
	Gr-Br, F-M sand grading to C sand and boulders 36-30-70-62	
105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Br, M-C sand and gravel with trace of silt 25-23-24-26	REMARKS
110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Br, C sand and gravel, trace of silt 14-34-40-37	SOIL DESCRIPTION ABBREVIATIONS
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Br, C sand and gravel, trace of silt	Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium B1-black And 40-50% F-Fine Y-yellow T-tan Gr-grey

Well Log # 141
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

	·	
Depth, Ft. (M)		Well No. (W-18) S-18
	Blow Counts/6"	Location
·	·	
10 - HO. 1		Owner U.S. EPA
		Ground Elev.
		Driller Geo-Metrics, Inc.
		Drilling Completed
	•	Type of Rig Truck Mounted
120 0 0	Br, C sand and gravel, trace of	WELL DATA
0 0	silt 27-27-21-22	Well Diam. 1.4" ID
	•	Depth
		Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC
125 0	Br, C sand and gravel, trace of silt	
123 -0 -0	36-31-33-59	Well Type Monitoring
0:1-0:1		Static Water Level
		Date Measured
		WATER QUALITY
		Samples Taken Yes No
130 0 🖂 0	Br, C sand and gravel, trace of silt	•
-'o日;0	and clay 50-50-63-33	Type of Samples
l		
[O:口·ō]		
O   O		Date Sampled
o - □ · o		Samplers
135	Br, C sand and gravel, trace of silt	Will be Analyzed for
	and clay 23-25-45-44	
[O: H-0]	•	
$O \rightarrow O$	•	
	•	
140 0 0 0	Br, C sand and gravel, trace of silt	
0 - 0	and clay 32-50-45-50	
	•	
[0] 님 이		
$o \square O$		
145 0	Br, C sand and gravel, trace of silt	
10 Harl	and clay 75-78-50-60	
_0  ~0	•	REMARKS
0		
0 - 0		
	Br, C sand and gravel, trace of silt	
	36-46-56-60	
∴0 ⊟ : 0		SOIL DESCRIPTION ABBREVIATIONS
10. Phi-1		Trace 0-10% C-Coarse Br-brown
- 0   ∃ <sup>.∨</sup> :	·	Some 10-40% M-Medium Bl-black
\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot		And 40-50% F-Fine Y-yellow
155	Br, C sand and gravel, some silt	. T-tan
10:44 10:04	and clay 50-46-82-28	Gr-grey
recycled par	paper	ecology and the vison wantering. Rered

ECOLOGY AND ENVIRONMENT,	INC.
30 East Cummings Park	
Woburn, MA 01801	

Well Log # 141
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Will be Analyzed for  Date Saupled Samplers Will be Analyzed for  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yelle T-tan	Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W-18 ) S-18 .
Drilling Completed Type of Rig Truck Mounted  Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC O.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples  Type of Samples  Date Sampled Samplers Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% T-Fine Y-yellc T-tan	0 0 -0	•	Ground Elev.
and clay 24-37-82  Well Diam. 1.4" ID Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples Will be Analyzed for  Date Samplers Will be Analyzed for  South Description Abbreviation Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yelle T-tan	0 -0	Rr C cand and gravel trace of silt	Drilling Completed
Screen Setting Screen Type Schedule 80 PVC O.0.01 Slot Well Type Monitoring Static Water Level Date Measured WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  Sould Description Abbreviation Trace 0-107 C-Coarse Br-brow Some 10-407 M-Medium B1-blac And 40-507 F-Fine Y-yellc			Well Diam. 1.4" ID Depth
Well Type Monitoring Static Water Level Date Measured  WATER QUALITY Samples Taken Yes No No. of Samples Type of Samples  Type of Sampled Samplers Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yello			Screen Setting Screen Type Schedule 80 PVC
Samples Taken Yes No No. of Samples Type of Samples  Date Sampled Samplers Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yellac			Well Type Monitoring Static Water Level
Type of Samples  Date Sampled Samplers Will be Analyzed for  REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello		•	Samples Taken Yes No
Soll Description Abbreviation  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium B1-blac And 40-50% F-Fine Y-yello			
REMARKS  SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			Samplers
SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			Will be Analyzed for
SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			
SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			
SOIL DESCRIPTION ABBREVIATION Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			
SOIL DESCRIPTION ABBREVIATION  Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello	-	:.	DEMADES
Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			
Trace 0-10% C-Coarse Br-brow Some 10-40% M-Medium Bl-blac And 40-50% F-Fine Y-yello			COAL DECONTOUR ARREST AMAZON
T-tan			Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black
recy <b>ffil/fighe</b> per ecologic <del>py</del> daminisminismic. R-red	-		T-tan Gr-grey

R-red

143

Well Log #

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cumnings Park Froject # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 1/8/82 Prepared By M. Hanley Depth, Ft. (M) Soil Description Well No. (W-19) S-19 Blow Counts/6" Location Woburn, MA Owner U.S. EPA Ground Elev. 65' MSL Driller Geo-Metrics, Inc. Drilling Completed 9/15/81 Type of Rig Truck Mounted
----- WELL DATA -----Fill 6-21-31-31 Well Diam. 1.4" ID Depth 54' Screen Diam. 1.4" ID Screen Setting 4' - 54' Screen Type Schedule 80 PVC 5 T, F-M sand (Dry) 8-10-10-10 0.01" Slot Well Type Monitoring Static Water Level 13.2' Date Measured 10/30/81 ---- WATER QUALITY -Samples Taken Yes X 10 T, F-M sand (Dry) 3-4-7-7No. of Samples 5 Type of Samples Priority Pollutant Date Sampled 12/1/81 Samplers <u>Cook and Porter</u> T, F-M sand 6-8-8-11 15 Will be Analyzed for T. F-M sand 4-10-16-20 20-0 T. F-M sand, some pebbles 7-12-16-16 \_25 REMARKS T-Gr, F sand, some silt, trace of 30 clay 10-14-16-19 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow Gr, F sand and silt, grading to silt T-tan trace of clay, some cobbles Gr-grey ecologyings andreamantniane

8-17-33-40

ECOLOGY AND	ENVIRON	MENT,	INC.
30 East (	Cummings	Park	
Woburn	, MA 0180	)1	

Well Log #	1/2		
Project Name	Woburn Well Survey		
	TDD F1-8010-03A		
Date Prepared			
Prepared By N	1. Hanley		

Soil Description Blow Counts/6"	Well No. (W-19) S-19 Location
×	Owner U.S. EPA Ground Elev. Driller Geo-Metrics, Inc.
	Drilling Completed Type of Rig Truck Mounted WELL DATA
recovery 50/1" (Cored Boulder)	Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting
silt and gravel 70-120-140	Screen Type Schedule 80 PVC  0.01" Slot  Well Type Monitoring Static Water Level
	Date Measured WATER QUALITY Samples Taken Yes No
drock	No. of Samples Type of Samples
	Date Sampled
· ·	
	REMARKS
	SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black
	And 40-50% F-Fine Y-yellow T-tan Gr-grey
	recovery 50/1" (Cored Boulder) silt and gravel 70-120-140

	ECOLOGY AND ENVIRONMENT, INC. 30 East Curmings Park Woburn, MA 01801	Well Log # 144 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared 1/8/82 Prepared By M. Hanley
Depth, Ft. (M	Soil Description Blow Counts/6"	Well No. (W-20) S-20 Location Woburn, MA
	Topsoil, Sandy fill 2-8-10-8	Owner U.S. EPA  Ground Elev. 65' MSL  Driller Geo-Metrics, Inc.  Drilling Completed 8/10/81  Type of Rig Truck Mounted  WELL DATA
5	Fill - sand and gravel 7-8-8-10	Well Diam. 1.4" ID Depth 141' Screen Diam. 1.4" ID Screen Setting 4' - 139.5' Screen Type Schedule 80 PVC
	· · · · · · · · · · · · · · · · · · ·	O.01" Slot  Well Type Monitoring Static Water Level 29' 9" Date Measured 10/30/81 WATER QUALITY
10	Br, C-M sand 3-7-11-12	No. of Samples 5  Type of Samples Priority Pollutar  Date Sampled 12/1/81
15	Br, F-M sand 8-8-9-11	Samplers Fucarile and Porter Will be Analyzed for
20	Br, M-C sand 5-6-6-8	
25	Br, M-C sand 8-7-8-9	REMARKS
30	alternating C sand, F sand and silt with trace of clay 8-8-8-9	SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown
35	T, F sand and silt 5-6-8-9	Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey ecology, and environmental R-red

Well Log # 144

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared

Prepared By M. Hanley

		. 11 %
Depth, Ft. (M)	Soil Description	Well No. (W-20) S-20
	Blow Counts/6"	Location
	•	Owner U.S. EPA
9.3.		Ground Elev.
		Driller Geo-Metrics, Inc.
	•	Drilling Completed
	·	Type of Rig Truck Mounted
		WELL DATA
40	T-Gr, F sand and silt 5-7-9-10	Well Diam. 1.4" ID
		Depth
		Screen Diam. 1.4" ID
		Screen Setting
		Screen Type Schedule 80 PVC
		0.01" Slot
45	T, F sand, silt, some clay 8-10-10-14	Well Type Monitoring
		Static Water Level
[:a-□ a-		Date Measured
		WATER QUALITY
		Samples Taken Yes No
		No. of Samples
50 Q	Br, M sand, some silty clay over C	Type of Samples
	sand and gravel 10-10-11-12	
		<del></del>
<u>-</u> -		Date Sampled
		Samplers
		Will be Analyzed for
-	On 115 1 1 ( 0 10 1/	Will be Analyzed lot
55	Gr silt, sand, some clay 6-8-10-14	
<del>    -</del> -	• •	
- <sup>-</sup> - - - -		
-  -  -		
	G: 115 12 10 0 0	
601	Gr silt, some clay 13-10-9-9	
65	Gr thin beds of silt, sand, clay	
	9–5–5–9	REMARKS
(0: ⊢	•	
0		
	, P A 4A 44	
70 O	No recovery 5-8-10-11	
		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
	·	Some 10-40% M-Medium Bl-black
$\Box o \cdots$		And 40-50% F-Fine Y-yellow
.: o. <b>□</b>		T-tan
75 0	No recovery 3-6-8-9	Gr-grey
recvened beb	Baper	ecologyogydamtrinorimentacine. R-red
,		

Well Log #

Well Log # 144
Project Name Woburn Well Survey
Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared Prepared By M. Hanley Soil Description Well No. (W-20) S-20. Depth, Ft. (M) Blow Counts/6" Location U.S. EPA Owner Ground Elev. Driller Geo-Metrics, Inc. Ò Drilling Completed Type of Rig Truck Mounted ----- WELL DATA -----No recovery 5-8-9-11 80-Well Diam. 1.4" ID Depth .0:: Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC O: No recovery 3-4-7-10 0.01" Slot 85-Well Type Monitoring Static Water Level Date Measured ----- WATER QUALITY -----Samples Taken Yes O Gr C sand, gravel, trace of silt No. of Samples 904.0∵ 4-6-7-11 Type of Samples ∴ O. Date Sampled Samplers Will be Analyzed for 95 ∤. 0. ∵ Gr, M-C sand and gravel 4-9-11-14 ·O: 100 0 O: Gr silt F sand, trace of gravel 0 11-14-16-19 Gr, M sand 11-18-27-24 105-REMARKS Gr, M sand 17-24-21-22 110 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr, F sand, silt 17-24-24-24 Gr-grey R-red ecology and environment inc.

ECOLOGY AND ENVIRONMENT. INC.

144 Project Name Woburn Well Survey

Well Log #

Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared Prepared By M. Hanley Well No. (W-20) S-20. Depth, Ft. (M) Soil Description Blow Counts/6" Location U.S. EPA Owner Ground Elev. Driller Geo-Metrics, Inc. Drilling Completed Type of Rig Truck Mounted Gr, F-M sand, silt 17-15-14-19 Well Diam. 1.4" ID Depth Screen Diam. 1.4" ID Screen Setting Screen Type Schedule 80 PVC Gr, F-C sand, trace of silt 0.01" Slot 125 14-17-27-28 Well Type Monitoring Static Water Level Date Measured ----- WATER QUALITY -----Samples Taken Yes Gr, C sand, gravel, some silt and No. of Samples 130 clay 170/G" Type of Samples Date Sampled Samplers Gr-Bl, C sand and gravel Will be Analyzed for 34-29-22-20 Gr sand, gravel and silt 140 35-36-20-20 145-REMARKS 150 SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan 155 Gr-grey ecologic en daniviro terrouse inc. R-red recytage dependen

ECOLOGY AND ENVIRONMENT, INC.

Well Log # 122
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/30/81
Prepared By M. Hanley

		•	repared by M. Hanrey	<b>—</b>
-	Depth, Ft. (M)	Soil Description	Well No. (W21) S-21 .	
-		Blow Counts/6"	Location Woburn, MA	
				_
			Owner U.S. EPA	
			Ground Elev. 77' MSL	
		•	Driller Geo-Metrics, Inc.	
			Drilling Completed 9/14/81	
			Type of Rig Truck Mounted	
]	0. 0		WELL DATA	
			Well Diam. 1.4" ID	_
	0:   0:	Fill 2-4-8-19	Depth 31.5'	
	.0:		Screen Diam. 1.4" ID	
	·· o· · o. :		Screen Setting 4'-31.5"	
_	·		Screen Type Schedule 80 PVC	
5		Fill 34-30-50-50	0.01" Slot	
		1111 34 30-30-30	Well Type Monitoring	_
	· O:    · O:		Static Water Level 19' 4"	
	· .~ '    · · · ·		Date Measured 10/30/81	
			WATER QUALITY	
10-		Fill, sand and gravel 17-25-35-50	Samples Taken Yes X No	
,0	·: <i>O</i> : []	riii, sand and graver 17-23-33-30	No. of Samples	
	· O :     O :	•	Type of Samples Priority Pollutant	
	· O     O		TOTACAILE	
	:0. ⊟ 0.		Date Sampled	—
	· · · · · · · · · · · · · · · · · · ·		Samplers	_
15-		Fill, sand and gravel 42-55-23-30	Will be Analyzed for	
	. 0. 🖂	,		
				_
	.0日.0			
	$: \sim \square \circ : \square$			_
	0-0-	R-Y clay, silt and sand 28-20-100/5"		
20-	· — · · — · · · · · · · ·	n'i ciay, size and band 20-20-100/5		
		R-Y clay, silt and sand w/ some gravel		
	$\times \times \square \times \times  $	10-15-50/1"	Sampled for Volatile	
	$X \vdash X $	,	Organics 11/3/81	
	××× H××			
	××××××			
25-	x 🗏			
	<b>×</b> ♥\\			
	$x^{x} \square x^{x}$	Bedrock	REMARKS	
	× H.×.			
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30-	<b>※目※</b> 1			
	x x X		COTI DECODIDATON ADDRESSAMION	c
			SOIL DESCRIPTION ABBREVIATIONS Trace 0-10% C-Coarse Br-brown	
		•	Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black	
			And 40-50% F-Fine Y-yellow	
			T-tan	~
35-	recyclad action	ner .	C===0.11	
	t ac A <b>sserte laction</b>	μ <del>α</del> τ	ecology)पक्कार्यस्थानी स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक स्थानिक	
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		ECOLOGY AND ENVIRONMENT, INC.  30 East Cummings Park  Woburn, MA 01801	Well Log # 127/1 Project Name Woburn Well Survey Project # TDD F1-8010-03A Date Prepared 11/30/81 Prepared By M. Hanley
	Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W22) S22 LocationWoburn, MA
		•	Owner U.S. EPA Ground Elev. 84' MSL Driller Geo-Metrics, Inc. Drilling Completed 9/22/81 Type of Rig Truck Mounted WELL DATA
		Sand, topsoil 1-1-46	Well Diam. 1.4" ID  Depth 44' MSL  Screen Diam. 1.4" ID  Screen Setting 4'-44'
5		Sand 7-11-23-50/3"	Screen Type Schedule 80 PVC 0.01" Slot
		Boulder Refusal	Well Type Monitoring Static Water Level 26' Date Measured 10/15/81 WATER QUALITY
10	0: 0:	Boulder	Samples Taken Yes X No No. of Samples Type of Samples Priority Pollutants
15	00000	Gr., C sand and gravel 80-84-110/4"	Date Sampled Samplers Will be Analyzed for
20		GB. C sand and gravel 47-60-92	Sampled for Volatile Organics
25·		GB C sand and gravel 90-50-47-37	REMARKS
30·		GB. C sand and gravel 80-110/4"	COIL DESCRIPTION ARPDRUTATIONS
35·		GB. C sand and gravel, some silt 55-125/5"	SOIL DESCRIPTION ABBREVIATIONS  Trace 0-10% C-Coarse Br-brown Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan Gr-grey R-red

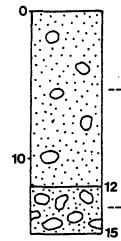
Well Log # 127/2
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hapley

		rrepared by m. Hanrey
Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (W22) S22 Location
125811148301		Owner U.S. EPA
		Ground Elev.
XXXX		Driller Geo-Metrics, Inc.
x   x	•	Drilling Completed
X		Type of Rig Truck Mounted
		WELL DATA
40 X Bedrock		Well Diam. 1.4" ID
$ x \times \exists x \times  $		Depth
$ \hat{x} $		Screen Diam. 1.4" ID
X X		Screen Setting
XXX		Screen Type Schedule 80 PVC
		0.01" Slot
45		Well Type Monitoring
		Static Water Level
		Date Measured
		WATER QUALITY
		Samples Taken Yes No
		No. of Samples
50-		Type of Samples
		Date Sampled
		Samplers
		Will be Analyzed for
55		Will be Analyzed lot
		<del></del>
		<del></del>
50-l		
	•	
55		
		REMARKS
	·	
	·	
70-		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
		Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
		T-tan
75-		Gr-grey
recyclecypleperaper		ecology and environment inc. R-red

Well Log # 14
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)

Description



---Sand (fine to coarse); gravel and some silt

---Sandy gravel and gravelly sand, some silt

15 ---Refusal

Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemicals
Ground Elev. 88 ft.
Driller Carr-Dee Test Boring
Drilling Completed 11/1/77
Type of Rig
WELL DATA

Well No. (GW2) S23

6

Date Sampled 3/2/81
Samplers Cook & Smart
Will be Analyzed for
129 Priority Pollutant

Type of Samples Priority Scan

No. of Samples

Split Samples to R. McBryon Olin
Comments

From Geotechnical Engineers
Inc. (1978)

recycled paper

ecology and environment

Well Log # 22
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M) Description	W
Peat and fine sand	B& Or Gr Dr
10 · O	Ho De Co So So
Sandy gravel and gravelly sand; some silt	Si Di Pi
24Refusal	To To
	A Sol
	D    S    W
	<u>S</u>

Well No. (GV10) S24
Location Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemical
Ground Elev. 87 feet
Oriller com Doc
Driller <u>Carr-Dee</u> Drilling Completed <u>11/2/77</u>
Tune of Die
Type of Rig
WELL DATA
Hole Diam. 15 in.
Depth 24 ft. Casing Diam. 3½ in.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type Observational
TEST DATA
Static Water Level 8' 7"
Date Measured 11/12/80
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Cotting
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes X No
No. of Samples
Type of Samples 6
Priority Scan
Date Sampled 11/12/80
Samplers P. Clay
Will be Applying for
Will be Analyzed for
129 Priority Pollutants
Split Samples to D. Vaughn-Olin
Comments
j
DEMARKS
REMARKS
From Geotechnical Engineers Inc. (1978)

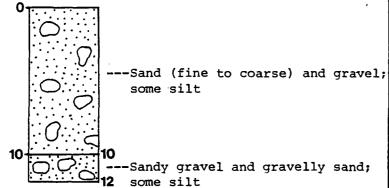
ecology and environment

recycled paper

Well Log # 17
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)

Description



Well No. (GW5) S25
Location Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemicals
Ground tiev. 76 ft.
Driller Carr-Dee Test Boring
Driller <u>Carr-Dee Test Boring</u> Drilling Completed <u>10/31/77</u>
Type of Did
WELL DATA
Hole Diam. 14 in.
Depth 12 ft. Casing Diam. 31 in.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type Well Type observational
Well Type observational
Static Water Level 4'1"
Date Measured 11 (12 (00
Date Measured 11/12/80 Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes x No
No. of Samples 6
Samples Taken Yes x No No. of Samples 6 Type of Samples Priority Scan
Date Sampled 11/12/80
Samplers P. Clay
Will be Analyzed for
129 Priority Pollutants
Split Samples to D. Vaughn-Olin
Comments
COMMETTES

From Geotechnical Engineers

Inc. (1978)

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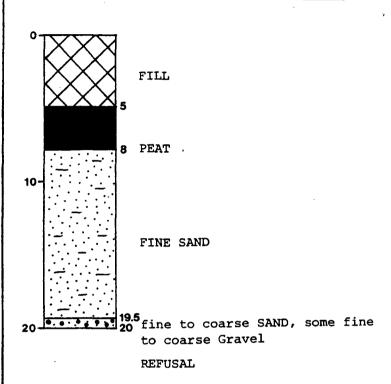
Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook (GZ-3) S26 Depth, Ft. (M) Well No. Description Woburn Location Owner Jampet Associates Ground Elev. Driller Carr-Dee FILL Drilling Completed 1/19/81 Type of Rig ----- WELL DATA ----Hole Diam. 1 1/2" Depth Casing Diam. Casing Depth 10 Screen Diam. 1 1/2" Screen Setting 32.5-34.5' FINE SAND Screen Type Well Type Monitoring
----- TEST DATA ---Static Water Level 5.5' Date Measured 1/19/81 Pumping Depth Test Duration Pumping Rate -Test Date Test Type fine to coarse SAND and coarse Pump Setting to fine GRAVEL, little Silt -Specific Gravity many boulders Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes x No. of Samples Type of Samples Priority Scan 35 BEDROCK Date Sampled 2/5/81 Samplers D. Cook, M. Hanley Will be Analyzed for 129 Priority Pollutants Split Samples to Comments ----- REMARKS -----Courtesy of John Ayres Goldberg Zoino and Assoc. Inc. Newton MA ecology and environment

recycled paper

Well Log #	68	
Project Name	Woburn Well Surv	ey
Project #	TDD F1-8010-03A	
Date Prepared	d_3/12/81	
Prepared By_	D. Cook	

Dept	h,	Ft.	(M)

Description



<u> </u>
Wall No. or a
Well No. (GZ-2) S27
Location Woburn
Owner Janpet Associates
Ground Elev. Driller Carr-Dee
Driller Carr-Dee
Drilling Completed 1/2/81
Type of Rig
WELL DATA
Hole Diam. 1 1/2"
Depth 20' Casing Diam. 6"
Casing Diam. 6"
casing pepth
Screen Diam. 1 1/2"
Screen Setting 8.8-18.8'
· Scroon Type
Well Type Monitoring
TEST DATA
Static Water Level 3'
Date Measured + 45 /04
Date Measured 1/12/81 Pumping Depth
Tost Bunation
Test Duration
Pumping Rate
Test Date
Test Type Pump Setting
rump Setting
Specific Gravity
Final Pump Capacity Final Pump Setting
Final Pump Setting
Average Pumpage
Average Pumpage
Samples Taken Yes x No  No. of Samples 6  Type of Samples Priority Scan
No. of Samples 6
Type of Samples Priority Scan
Date Sampled 2/5/81
Samplers D. Cook, M. Hanley
Will be Analyzed for
129 Priority Pollutants
Split Samples to
Comments

----- REMARKS -----

Goldberg Zoino and Assoc. Inc.

Courtesy of John Ayres

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Newton, MA

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Well Log # 72 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook Depth, Ft. (M) Description Well No(GZ-6) S28 Location Woburn Owner Jampet Associates Ground Elev. Driller Carr-Dee Drilling Completed 1/16/81 Type of Rig ----- WELL DATA --------- Artificial Fill Hole Diam. 1 1/2" Depth 451 Casing Diam. 3" Casing Depth Screen Diam. 1 1/2" ---- Fine to medium SAND Screen Setting 29 - 39' Screen Type Monitoring Well Type Ò٠ ---- Dense, fine to coarse SAND, ----- TEST DATA ----and GRAVEL, little Silt Static Water Level 11.7 Date Measured 1/16/81Pumping Depth Test Duration Pumping Rate Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes x No. of Samples ---- Brown, medium to fine SAND Type of Samples Priority Scan Date Sampled 2/5/81 Samplers M. Hanley & Cook Will be Analyzed for ]29 Priority Pollutants Split Samples to Comments ----- REMARKS -----Courtesy John Ayres-Goldberg Zoino and Assoc. Inc. Newton, MA

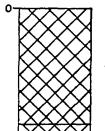
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Well Log # 71
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)

Description



Artificial Fill

10\_Sil

10.5Silt 10.5Dark brown, fine to medium Sand 12.5

Gray, coarse to fine GRAVEL, some coarse to fine Sand, little silt 16.5 Quartz and Mica chips (GLACIAL TILL)

Bottom of boring at 16.5 feet

Well No.	GZ-5)	S29
Location	Woburn	

Owner Jampet Associates
Ground Elev.
Driller_Carr-Dee
Driller <u>Carr-Dee</u> Drilling Completed 1/14/81
Type of Rig
WELL DATA
Hole Diam. 1 1/2"
Depth 16.5'
Casing Diam. 6"
Casing Depth
Screen Diam. 1 1/2"
Screen Setting 10.5-13.1'
Screen Type
Well Type Monitoring Well
TEST DATA
Static Water Level 12.45'
Date Measured 1/14/81
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes x No
No. of Samples 6
Type of Samples Priority Scan
•
B

Samplers D. Cook, M. Hanley Will be Analyzed for
Will be Analyzed for
]29 Priority Pollutants

Split Samples to

Comments

Courtesy of John Ayres-Goldberg
Zoino and Assoc. Inc. Newton,
MA

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recycled paper

Well Log # 66 Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/12/81 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (E 26 ) S33 Location West end of Cabot Rd. Woburn Owner Solar Power Ground Elev. 70 ft. DrillerAmerican Artesian Drilling Completed 1979 Type of Rig ----- WELL DATA -----Hole Diam. Depth 35 feet --Fine sand and gravel Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Industrial ----- TEST DATA -----Static Water Level 7 ft. Date Measured 1979 Pumping Depth Test Duration Pumping Rate -20 Test Date Test Type Pump Setting -AQUIFER - Coarse sand and gravel; Specific Gravity trace of clay Final Pump Capacity. Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes x No. of Samples Type of SamplesPriority Scan Date Sampled 1/23/81 Samplers P. Clay Will be Analyzed for 129 Priority Pollutants Split Samples to Comments ----- REMARKS -----Courtesy Harry Jacobson Solar Power Corp. Woburn, MA recycled paper ecology and environment

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Well Log # 106
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/11/81
Prepared By R. DiNitto

•	1
Depth, Ft. (M) Description	Well No. (w 420) S39
	Location North of Salem Street
O Peat	East of Aberjona River
3	Owner City of Woburn "H"
11 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	Ground Elev. 45 ft.
	Driller Maher
10-10-10-10-10-10-10-10-10-10-10-10-10-1	Drilling Completed 1964
	Type of Rig
Sand, fine to med, gray	WELL DATA
Sund, line to may gray	Hole Diam. 24 in.
	Depth 89.3 ft.
20	Casing Diam.
	Casing Depth
	Screen Diam.
27	Screen Setting
	Screen Type
30-	Well Type Water withdrawel
	TEST DATA
	Static Water Level 1 ft.
	Date Measured
40	Pumping Depth
	Test Duration
Clay & Sand (fine to med.,)	700 GPM
	Test Date
<u> </u>	Test Type
50	Pump Setting
	Specific Gravity
	Final Pump Capacity
56.5	Final Pump Setting
60	Average Pumpage
Sand (brown) & gravel	WATER QUALITY
OO:	Samples Taken Yes_x No_
	No. of Samples 6
	Type of Samples Priority Scan
70	
	Date Sampled 1/29/81
	Samplers R. Palermo, J. Panaro
80-10	Will be Analyzed for
	129 Priority Pollutants
84	Colif Complex to
	Split Samples to
Sand (fine to coarse, gray	Comments
90 89.3brown) and gravel, trace of	f clay   Comments
	REMARKS
	From Delaney and Gay (1980)

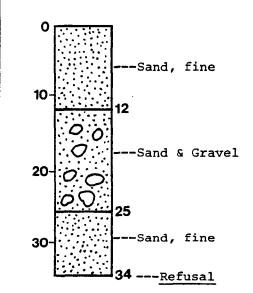
		Prepared By R. DiNitto
Depth, Ft. (M)	Description	Well No. (w 419) s40
		Location City Well "G" North
	man and 1	of Salem St : East of Aberjona
0	Topsoil	
CALL PROPERTY.	2	Ground Elev. 45 ft
		Driller Maher
		Drilling Completed 1967
	Sand, fine, brown	Type of Rig
10   : . :		WELL DATA
		Hole Diam. 24 in.
		Depth 88 ft.
	17	Casing Diam.
20 =		Casing Depth
20]	Clay and fine sand	Screen Diam.
127.4		Screen Setting Gravel Wall ?
	26 _ , , .	Screen Type Commercial
1	28Sand, med., brown	Well Type water Withdrawal
30		TEST DATA
		Static Water Level 1 ft.
6.0		Date Measured
		Pumping Depth
		Test Duration
40	Sand & Gravel, Brown	Pumping Rate 800 GPM
		Test Date
· · · · · · · · · · · · · · · · · · ·	45	Test Type
00.0		Pump Setting
50		Specific Gravity
1:0.0	Sand (med., brown) & gravel	Final Pump Capacity
		Final Pump Setting
		Average Pumpage
0.0	58	WATER QUALITY
60	•	Samples Taken Yes <u>x</u> No
		No. of Samples 6
		Type of Samples Priority Scan
70	,	
		Date Sampled 1/29/81
	Sand & Coarse Gravel, brown	Samplers R.Palermo, J. Panaro
'	Sand & Course Graver, Drown	Will be Analyzed for
		129 Priority Pollutants
801		Calit Cambo to
		Split Samples to
		Comments
	00	Commencs
	88	
		REMARKS
		i
		From Delaney and Gay (1980)
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116 Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 11/18/80 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. ( w 436 ) S41 Location Wob. 800 ft. east of Well # W 419 Owner N.E. Plastics O Ground Elevuscs 60' MSL Driller Drilling Completed 1962 Type of Rig 10 ----- WELL DATA -----Hole Diam. 6 in. Depth 358 ft. ----No report Casing Diam. Casing Depth 20 Screen Diam. Screen Setting Screen Type Well Type Industrial TEST DATA 30 Static Water Level 15 ft. Date Measured 2-62 Pumping Depth 38 Test Duration ××× 40 Pumping Rate 45 GPM Test Date XX Test Type ----Bedrock (not specified) Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY ----x x Samples Taken Yes X XXX No. of Samples 6  $\mathbf{x} \mathbf{x}$ **X** 358 Type of Samples Priority Scan Date Sampled 1/23/81 Samplers P. Clay, J. Panaro Will be Analyzed for 129 Priority Pollutants Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980) recycled paper ecology and environment

Well Log #	93	
Project Name	Woburn Well Su	rvey
Project #	TDD F1-8010-03	A
Date Prepared	3/11/81	
Prepared By	R. DiNitto	

Depth, Ft. (M)

Description



Well No. (w 364) S44
Location Woburn, North of
Forbes Road
Owner Independent Tallow
Owner Independent Tallow Ground Elev. 85 ft.
Driller
Drilling Completed 1940
Type of Dig
WELL DATA
Hole Diam. 24 in. Depth USGS 24 ft. Log 34 ft.
Depth USGS 24 ft. Log 34 ft.
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Screen Type Well Type Industrial TEST DATA
TEST DATA
Static Water Level 5 ft.
Date Measured 12/2/80 Pumping Depth 170 GPM
Pumping Depth 170 GPM
lest Duration
Pumping Rate
Test Date
Test Type Pump Setting
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
MATED OUALTY
Samples Taken Yes x No
No. of Samples 6
Samples Taken Yes X No No. of Samples 6 Type of Samples Priority scan
Date Sampled 12/2/80
Samplersh, Cook, P. Clay
Will be Analyzed for
129 Priority Pollutants
Split Samples to
Comments

----- REMARKS -----

From Delaney and Gay (1980)

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Well Log # 107 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03 Woburn, MA 01801 Date Prepared 11/18/80 Prepared By R. Dinitto Well No. (W 422) S45 Depth, Ft. (M) Description Location South of Aberjona Drive East of Aberjona River Owner City of Woburn Ground Elev. 45 ft. -Peat and loam Driller -Sand Drilling Completed 1963 Type of Rig Drive-Wash ----- WELL DATA -----Hole Diam. 2 in.
Depth 40 ft. Depth O D --- Sand and gravel Casing Diam. Casing Depth Screen Diam. Screen Setting ves Screen Type Well Type Test-Unused ----- TEST DATA -----Static Water Level \_ 2 ft. Date Measured 10-63 Pumping Depth 1 ft. DD ---Sand and gravel; trace of clay Test Duration 3 hrs. Pumping Rate 40 GPM Test Date 43 Test Type Pump Setting Specific Gravity ---Clay; sand and gravel Final Pump Capacity 504 Final Pump Setting -Average Pumpage ----- WATER QUALITY -----Samples Taken Yes 58 No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 73 Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 3/12/81 Prepared By W. Norman
Depth, Ft. (M)  Description  Description  Description  Description  Description  Description  Description  Description  Description	Date Prepared 3/12/81
	Comments  REMARKS From Delaney and Gay (1980)
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Well Log # 118 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 11/18/80 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (w 439) S47 Location 300 Ft. North of Salem St. Woburn J.J. Riley Owner 0 Ground Elev.55 ft. Driller Drilling Completed 1945 Type of Rig 10 Hole Diam. ? Depth 35 ft. ----No report (no bedrock reported) Casing Diam. Casing Depth 20 Screen Diam. Screen Setting . Screen Type Well Type Industrial ----- TEST DATA -----30 Static Water Level 5 ft. Date Measured 35 Pumping Depth Test Duration Pumping Rate 500 GPM Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes X No. of Samples 6 Type of Samples Priority Scan Date Sampled 11/14/1980 Samplers P. Clay, D. Cook Will be Analyzed for 129 Priority Pollutants Split Samples to J.J. Riley Comments ----- REMARKS -----From Delaney and Gay (1980) recycled paper

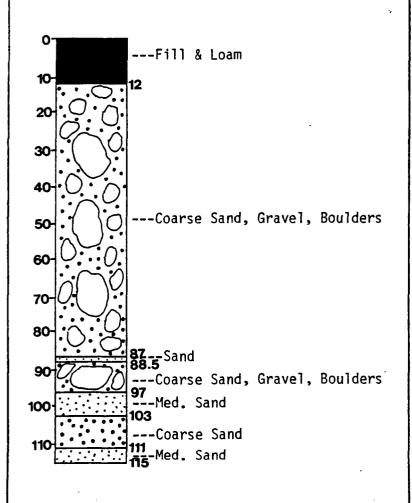
Well Log # 108 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # -TDD F1-8010-03A Woburn, MA 01801 Date Prepared 3/11/81 Prepared By R. DiNitto Well No. (W424) Depth, Ft. (M) Description South end of Location Whittemore Pond, Woburn Owner Atlantic Gelatin Ground Elev. 50 ft. Ground Elev. Driller ---Coarse sand & Gravel Drilling Completed 1961 Type of Rig ----- WELL DATA -----Hole Diam. 8 in. --- Medium sand Depth 140 ft. 30 Casing Diam. Casing Depth 134 ft. --- Fine Sand 40 Screen Diam. Screen Setting Screen Type 50 Test-unused Well Type ----- TEST DATA ----60 Static Water Level 14' Date Measured Pumping Depth ---Medium sand & gravel Test Duration Pumping Rate 7 80 Test Date March 1961 Test Type 90 Pump Setting Specific Gravity 100 Final Pump Capacity Final Pump Setting Average Pumpage 110 ---- WATER QUALITY Samples Taken Yes 120 No. of Samples Type of Samples Priority Scan 130 ---Bedrock Date Sampled 2/12/81 Samplers D. Cook, P. Clay Will be Analyzed for 129 Priority Pollutants Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 48
Project Name Woburn Well Survey
Project # TDD F1-8010-03
Date Prepared 2/8/81
Prepared By D. Cook

Depth, Ft. (M)

Description



Well No. (AG 7) S51 Location Woburn, MA Owner Atlantic Gelatin Ground Elev. 50' MSL Driller Layne Drilling Completed Type of Rig ---- WELL DATA ---Hole Diam. 18" Depth Casing Diam. 24" Casing Depth 65' Screen Diam. 18" Screen Setting 87-107 Screen Type #5 Layne Well Type ---- TEST DATA ---Static Water Level Date Measured Pumping Depth Test Duration Pumping Rate 7 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes X No. of Samples 6 Type of Samples Priority Scan Date Sampled 2/4/81 Samplers D. Cook, P. Clay Will be Analyzed for

129 Priority Pollutants

Atlantic Gelatin

General Foods Corp.

ecology and environment

Comments

Split Samples to W. Collins

Courtesy Bill Collins Atlantic Gelatin Division

Well Log # 110
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 3/11/81
Prepared By R DiNitto

Depti	n, Ft. (M	)	טַפ	escription		}
0-	0.	]			,	
10-	0.0	Coa	rse sand and	gravel		7
30-	0.0	30		·		
40-						
50-		Fin	e sand			. 9
60-						9
70-						F
80-						F
90-		90				F
100-		Cla	y and fine s	and		F
110-					ļ	_
120-			•		•	S
130-						-
140-		142	- Refusal			[
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						1
						(

Well No (W 426) S53 ocation Corner of Washington St nd Grape Street, Woburn Wner Atlantic Gelatin Ground Elev. 56 ft. MSL riller rilling Completed ype of Rig ----- WELL DATA ----lole Diam. <u>2 in.</u> epth <u>142 ft.</u> Casing Diam. Casing Depth Screen Diam. creen Setting Green Type Well Type <u>Test-Unused</u> Static Water Level 14 ate Measured October 1960 Pumping Depth est Duration 'umping Rate ' est Date est Type ump Setting Specific Gravity inal Pump Capacity inal Pump Setting Nverage Pumpage ----- WATER QUALITY amples Taken Yes × No No. of Samples Type of Samples Priority Scan ate Sampled 2/4/81 Samplers D. Cook, P. Clay will be Analyzed for 129 Priority Pollutants plit Samples to Bill Collins - A.G. Comments

From Delaney and Gay (1980)

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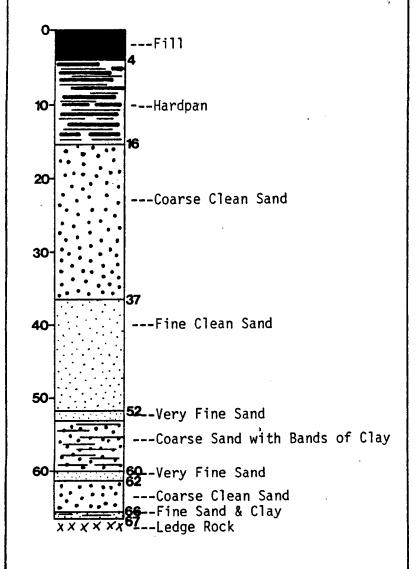
Well Log # 89 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Date Prepared 2/8/81 Woburn, MA 01801 Prepared By D. Cook Depth, Ft. (M) Well No. ( AG 4A) s54 Description Location Woburn, MA OwnerAtlantic Gelatin Ground Elev. ---Sand Gravel & Clay Driller Layne Drilling Completed 7/5/57 Type of Rig ----- WELL DATA -----Hole Diam. 18" Depth --Brown Sandy Clay Casing Diam. 33' Casing Depth Screen Diam. **1**8" Screen Setting Screen Type Well Type \_\_\_\_ |--Clay, Sand, Little Gravel ----- TEST DATA -----Static Water Level 9'10" Date Measured 12/3/57 Pumping Depth 40' Test Duration Pumping Rate 300 GPM Test Date 12/3/57 Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting\_ Average Pumpage ----- WATER QUALITY -----Samples Taken Yes X No. of Samples Type of Samples Priority Scan --Sand, Gravel & Boulders, Clay Date Sampled 1/27/81 -36 Samplers DEOE Will be Analyzed for ---Dirty Sand, Gravel, Boulders 129 Priority Pollutants 40 Split Samples to Comments ----- REMARKS -----Courtesy of Bill Collins --Broken Rock Atlantic Gelatin Division Ceneral Foods Corp. ххххх **50.6**--Rock ecology and environment

	OGY AND ENVIRONMENT, INC. DEast Cummings Park Woburn, MA 01801	Well Log # 88  Project Name Woburn Well Survey  Project # TDD F1-8010-03 A  Date Prepared 2/8/81  Prepared By D. Cook
Depth, Ft. (M)	Description	Well No. (AG 6) 855 Location Woburn, MA
30	ine Sand and Clay  ray Clay  ravel, Sand oulders and Small Stone Gravel	Owner Atlantic Gelatin Ground Elev. 47 Driller Layne Drilling Completed 1958 Type of Rig
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Well Log # 38
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 2/8/81
Prepared By D. Cook

Depth, Ft. (M)

Description



Well No. (AG 1) S57 Location Winchester, MA

Owner General Foods/Atlantic Gelatin
Ground Elev. 29' MSL
DrillerLayne
Drilling Completed 1/4/35
Type of Rig
WELL DATA
Hole Diam. 18"
Depth 67'
Casing Diam. 36"
Screen Diam.
Screen Setting
Screen Type
Well Type Industrial
Static Water Level 43'
Date Measured 5/22/35
Pumping Depth 55
Test Duration
Pumping Rate 270 GPM
Test Date 5/22/35
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes X No
No. of Samples 6
Type of Samples
Priority Pollutant Scan
Data Campled 0/4/01
Date Sampled 2/4/81
Samplers D. Cook, P. Clay
Will be Analyzed for
129 Priority Pollutant
Colit Complex to U Collins
Split Samples to W. Collins
Atlantic Gelatin
Comments
05140)/C
REMARKS
Courtesy of Bill Collins -
Atlantic Gelatin Division of
General Foods Corp.
General Foods COFD.

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Well Log # ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 Woburn, MA 01801 Date Prepared 2/8/81 Prepared By Depth, Ft. (M) Description Well No. (AG 2) Location Winchester, MA Owner Gen. Foods. Atlantic Gelatin Ground Elev. -Loam Driller Drilling Completed 10/15/36 -Hardpan<sup>.</sup> Type of Rig ----- WELL DATA -18" Hole Diam. Depth 100' Casing Diam. 24" Casing Depth 44.5 Screen Diam. 18" Screen Setting Screen Type #2 Well Type Industrial ---Red Gravel -- TEST DATA ----Static Water Level 21' Date Measured Pumping Depth Test Duration Pumping Rate 7 1000 GPM --White Sand with Some Gravel Test Date Test Type Pump Setting Specific Gravity 50 Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes x 60 No. of Samples Type of Samples Priority Scan Date Sampled 2/4/81 70 Samplers <u>D. Cook P. Clay</u> Will be Analyzed for 129 Priority Pollutants 80 Split Samples to W. Collins Atlantic Gelatin Comments ----- REMARKS -----Courtesy - Bill Collins, <u>Atlantic Gelatin Division</u> 100 of General Foods Corp. ecology and environment recycled paper

Well Log # 40 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT. INC. Project # 30 East Cummings Park TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 2/8/81 Prepared By D. Cook Depth, Ft. (M) Description Well No.(AG 5) 859 Location Winchester Owner Atlantic Gelatin ---Sand, Gravel and Boulders Ground Elev. Driller Layne Drilling Completed 3/11/57 Type of Rig ----- WELL DATA --20-Hole Diam. 18" Depth 156' 30-24" **32**-Gray Clay & Some Boulders Casing Diam. Casing Depth 138 40-Gray Clay 40 Screen Diam. Screen Setting 141'-156' ---Fine Gray Sand and Mud Screen Type 50 Well Type Industrial ----- TEST DATA -----Medium Gray Sand and Mud 60 Static Water Level 191 65 Date Measured 11/20/57 Pumping Depth ---Coarse Sand, Gravel, Some Clay 80° Test Duration Pumping Rate T 820 GPM Test Date 11/20/57 --- Gray Clay Test Type 90-Pump Setting 115'3" Specific Gravity 100-Final Pump Capacity ---Fine Gray Sand, Very Muddy Final Pump Setting Average Pumpage 110 112-Gray Clay 113.6 -Coarse Sand and Gravel ----- WATER QUALITY -----Samples Taken Yes X No 120-No. of Samples ০ত ---Fine Gravel, Muddy Sand and Clay Type of Samples Priority Scan 130-Date Sampled 2/4/81 140----Coarse Sand and Gravel and Samplers <u>D. Cook. P. Clay</u> Will be Analyzed for Large Boulders 150 129 Priority Pollutants Split Samples to W. Collins Atlantic Gelatin Comments ----- REMARKS -----Courtesy Bill Collins -Atlantic Gelatin Division of General Foods Corp.

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Well Log # 126/1
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/30/81
Prepared By M. Hanley

Soil Description Depth, Ft. (M) Blow Counts/6" Br. F-M sand & gravel; Boulder, rock fragments Gr.-Br., F-C sand & gravel; some silt, trace boulders (Till) 25

Bedrock

recycled paper

30-

Well No. (E41) S60 Location Woburn, MA

Owner MDC Ground Elev. 122.4' MSL Driller Guild Drilling Co., Inc. Drilling Completed 8/7/81 Type of Rig Truck Mounted ----- WELL DATA -Well Diam. 1.4" ID Depth 54' 1" Screen Diam. 1.4" ID Screen Setting 34'1"-44'1" Screen Type Schedule 80 PVC 0.01" Slot Well Type Monitoring 26'2" Static Water Level Date Measured 10/30/81 ----- WATER QUALITY -Samples Taken Yes x No. of Samples Type of Samples Priority Pollutants Date Sampled 11/30/81 Samplers Cook, Porter Will be Analyzed for Sampled for Volatile Organics 11/3/81

REMARKS

Well Log Courtesy of Haley & Aldrich, Inc. 238 Main Street Cambridge, MA

SOIL DESCRIPTION ABBREVIATIONS
Trace 0-10% C-Coarse Br-brown
Some 10-40% M-Medium Bl-black

Some 10-40% M-Medium Bl-black And 40-50% F-Fine Y-yellow T-tan

ccology and environment R-red

Well Log # 126/2
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

Depth, Ft. (M)	Soil Description Blow Counts/6"	Well No. (E41) S60 Location
		7
x x x		Owner
^x^  =  **		Ground Elev.
× × ⊨ × ×		Driller
	•	Drilling Completed
* x 目 * x		Type of Rig Truck Mounted
x^x     x^x		WELL DATA
40 × <del>□</del> ×		Well Diam.
x x ⊟ *;×		Depth
xxx  xxx		Screen Diam.
x Be	edrock	Screen Setting
x x <del>  -  </del> x x		Screen Type
X     X		•
45 X X X X		Well Type
XXXX		Static Water Level
XX XX		Date Measured
x x     x x		WATER QUALITY
X X		Samples Taken Yes No
x x X X		No. of Samples
50 X X X X		Type of Samples
X   X X		Date Sampled
		Samplers
××× ××		Will be Analyzed for
55		
		**************************************
	·	
30-		
	•	<del></del>
1 1 1		<del></del>
		·
55-		REMARKS
		ICHINO
1 1 1		
-		
70-		COTE BECARTDETAL EPHREUTIESCUS
		SOIL DESCRIPTION ABBREVIATIONS
		Trace 0-10% C-Coarse Br-brown
	•	Some 10-40% M-Medium Bl-black
		And 40-50% F-Fine Y-yellow
		T-tan
75-	_	Gr-grey
recycled paper	)T	ecology and environment, inc. R-red

Well Log #
Project Name Woburn Well Survey
Project # F1-8109-02
Date Prepared 1/18/82
Prepared By R. DiNitto

Depth, Ft. (M)	Description	Well No. s 61 (BW-7)
		Location Reading, MA @
		intersection of Rts 128 and 93
0	Topod1	Owner Mbc
	Topsoil	Ground Elev. 104 Ft, MSL
· · · · · · · · · · · · · · · · · · ·		Driller Guild Drilling
[.∪o.÷]		Drilling Completed 12/29/81
- 00		Type of Rig
10	Brown/Gray Fine-Med. sand, some	WELL DATA
	silt, some fine-coarse gravel	Hole Diam.
[.O: .O.]	(cobbles and boulders)	Depth 80 ft.
0		Casing Diam. I 1/2"
00.		Casing Depth 15'
20		Screen Diam. 1 1/2"
$\times \times \times$		Screen Setting 15'-20'
X X		Screen Type
* * *		Well Type Monitoring
30 4 7 4 1		TEST DATA
30 ] × x × ^		Static Water Level
x × x	a to a contract for the contract	Date Measured
XX	Granite Gneiss, fractured	Pumping Depth
XXX		Test Duration
40 - X X		Pumping Rate
XXX		Test Date
XX		Test Type
X X X		Pump Setting
50   X X X X		Specific Gravity
X X X		Final Pump Capacity
x x x		Final Pump Setting
x x		Average Pumpage
60 X X X		WATER QUALITY
X X		Samples Taken Yes x No
X X X	· i	No. of Samples 5
JXJXJ		Type of Samples
$\begin{bmatrix} x & x & x \\ x & x & x \end{bmatrix}$		Priority Pollutant
$70 \mid x^{x} \mid x$	·	Date Sampled 1/20/82
X X		Samplers E&E, Inc.
× , ^ , *		Will be Analyzed for
x x ^ x	00 - 0 -	129 Priority Pollutants
80	80 E.O.B.	12) Illiolity lollidants
		Split Samples to
		Comments
	·	
•		
		DEMARKE
		REMARKS
		Courtesy of Geotechnical Engineers
		Winchester, MA
recyp <b>ico</b> dat <b>ec</b> g	hner .	
i co i raci di catal	ahdı	

Well Log #
Project Name Woburn Groundwater
Project # F1-8109-02
Date Prepared March 18, 1982
Prepared By D. Cook

Depth, Ft. (M)

Description



Fi11

Gray-brown, F-M sand

Peat

Peaty organic silt

Orange-brown, F-M sand

× × × × × × × × × ×

Bedrock-Pink granodiorite

1
Well No. s 62 (BS-2)
Location Stoneham, MA
Owner MDC
Ground Elev.
Driller Guild Drilling Drilling Completed 12/16/81
Tuno of Dia
Type of Rig
week own
note biam.
Depth 60' 4"
Casing Diam. 1 1/2" Casing Depth 5'
Casing Depth 5'
Screen Diam. 15
Screen Setting10' - 15'
Screen Type
Well Type Wanterston
Well Type Monitoring TEST DATA
Ctatio Material and
Static Water Level
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity Final Pump Sotting
Final Dump Cotting
rinal rump secting
Average Pumpage
WATER QUALITY
Samples Taken Yes X No
No. of Samples 5
Type of Samples Priority
Pollutant
Date Sampled 1/20/81
Samplers E&E Inc.
Will be Analyzed for
129 Priority Pollutant
Calif Camples to
Split Samples to
Comments
REMARKS
Courtous of Contachnichl

Engineers Inc., Winchester, MA

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Well Log # 15
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

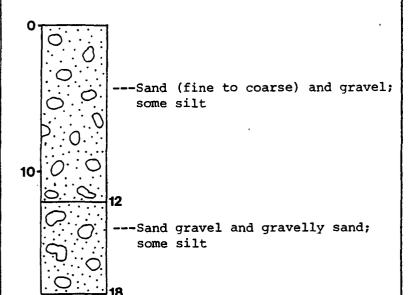
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		Prepared By R. DiNitto
Depth, Ft. (M)	Description	Well No. (GW3) 63
	<del></del>	Location Corner of Eames St. and
		B&M Railroad, Wilmington
	. 9	Owner Olin Chemicals
01		Ground Elev. 85½ in.
1 6 0.1		Driller Carr-Dee Test Boring
1   Y d		Drilling Completed 11/1/77
		Type of Rig
	(4)	WELL DATA
	(fine to coarse) and gravel,	Hole Diam. 1½ in.
some s	511t	Depth 22 ft.
[::::9]		Casing Diam. 3½ in.
		Casing Depth
10		Screen Diam.
1 1999:00		Screen Setting
		Screen Type
13		Well Type Observational
13 13 13		TEST DATA
		Static Water Level 4.2 ft.
		Date Measured 12/6/78
	gravel and gravelly sand,	Pumping Depth
some s	ilt.	Test Duration
20-		Pumping Rate
		Test Date
22 (1	Refusal)	Test Type
		Pump Setting
		Specific Gravity
		Final Pump Capacity Final Pump Setting
	·	Average Pumpage
		WATER QUALITY
		Samples Taken Yes No X
		No. of Samples
·	,	Type of Samples
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
· ·	•	
		Date Sampled
		Samplers
		Will be Analyzed for
		Split Samples to
		Comments
		33
		DEMARKE
		REMARKS
	ł	From Geotechnical Engineers
}	İ	Inc (1978)
· ·	į (	

Well Log # 18
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

Dept	١,	Ft.	(M)

Description



Well No. (GW6) 64
Location Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemical
Ground Elev. 87 ft.
Driller Carr-Dee Test Boring
Driller <u>Carr-Dee Test Boring</u> Drilling Completed <u>10/28/77</u>
Type of Rig
WELL DATA
Hole Diam. 1½ in.
Depth 18 ft. Casing Diam. 3½ in.
Casing Diam. 3½ in.
Casing Depth
Screen Diam
Screen Setting
Screen Type
Well Type Observational
TEST DATA
Static Water Level 5' 11"
Date Measured 11/12/80
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes X No
No. of Samples
Type of Samples
Screening VOA
Date Sampled 11/12/80
Samplers P. Clay
Will be Analyzed for
Volatile Organics
Split Samples to D Vaughn-Olin
Comments
REMARKS

From Geotechnical Engineers

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Well Log # 13 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 12/8/80 Prepared By R. DiNitto Well No. (GW-1) Depth, Ft. (M) Description 65 LocationCorner of Eames St. and B&M Railroad, Wilmington Owner Olin Chemicals Ground Elev. 88 ft. Drillercarr-Dee Test Boring Drilling Completed 10/26/77 Type of Rig ----- WELL DATA -----Hole Diam. 1½ in. Depth 21.2 ft. ---Sand (fine to coarse); and Casing Diam. 31 in. gravel and/or silt Casing Depth Screen Diam. Screen Setting Screen Type 13 Well Type Observational ----- TEST DATA --Static Water Level 11' 4" --Sandy gravel and gravelly sand, Date Measured some silt Pumping Depth Test Duration Pumping Rate 7 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY Samples Taken Yes X No No. of Samples Type of Samples Screening Date Sampled 11/12/80 Samplers P. Clay Will be Analyzed for Volatile Organics Split Samples to D. Vaughn -Olin Comments ----- REMARKS -----From Geotechnical Engineers Inc. (1978)

ecology and environment

Well Log # 23
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 12/8/80
Prepared By R. DiNitto

pepin, rt. (M)	Description
	and (fine to coarse) and gravel; whe silt
14 Gr	avelly sand; some silt

Wall No.
Well No. (GW11) 66
Location Corner of Eames Street
and B&M Railroad, Wilmington
Owner Olin Chemical
Ground Elev. 86 feet
Driller Carr-Dee
Drilling Completed 10/31/77
Type of Rig
WELL DATA
Hole Diam. 1½ in.
Depth 17 ft.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Observational
TEST DATA
Static Water Level 6'3"
Data Marsumod
Date Measured 11/12/60
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes x No
No. of Samples
No. of Samples Type of Samples Screening
.3 kg 0, 0 mmp , 00 001 0011111
Date Sampled 11/12/80
Samplers P. Clay
Will be Analyzed for
Volatile Organics
TOTAL OLGANICS
Split Samples to D. Vaughn -
Olin
Comments
COMMENTS
REMARKS
From Geotechnical Engineers
Inc. (1978)

Well Log # 19
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)	Description
0	,
Sandy Peat	
10-0:0:Sandy gravel some silt	and gravelly sand;
14 (Refusal)	

······································
Well No. (GW7) 67
location Games of Bases St. and
Location Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemicals Ground Elev. 83 ft.
Orillon -
Oriller Carr-Dee Test Boring
Drilling Completed 10/27/77
Type of Rig
WELL DATA
Hole Diam. 1½ in.
Depth 14 ft.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Observational
TEST DATA
Static Water Level 5' 4"
Date Measured 11/12/90
Date Measured 11/12/80
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
-
Split Samples to
Comments
DEMARKS
REMARKS
From Geotechnical Engineers
Inc. (1978)

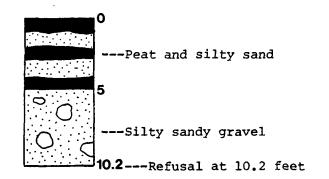
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Well Log # 20
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth.	Ft.	(M)
DCD CITS	,	(17)

Description



Well No (CTP) 69
Well No. (GW8) 68 Location Corner of Eames St. and
Dot poil corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemical
Ground Elev.78 ft.
Driller Carr-Dee Test Boring
Drilling Completed 10/28/77
Type of Rig
Type of Rig
Hole Diam. 1 in.
Donath 10 0 Ct
Casing Diam. 3½ in.
Cooks Doobs
Casing Depth Screen Diam. Screen Setting
Screen Diam.
Screen Setting
Screen Type
Well Type Observational
Well Type Observational
Static Water Level 5' 1"
Date Measured 11/12/80
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity Final Pump Setting
Final Pump Setting
Average Pumpage
WATER OUALITY
Samples Taken Ves X No
Samples Taken Yes X No No. of Samples 1
Type of Samples Screening
Type of Samples Screening
Date Sampled 11/12/80
Samplers P. Clay
Will be Analyzed for
Volatile Organics
Split Samples to D Vaughn-Olin
op. 10 damp to to D vaugini Ollin
Comments
COMMETTUS
851181/8
REMARKS
From Geotechnical Engineers
Inc. (1978)
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Well Log # 30
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

		Prepared By D. Cook
	· · · · · · · · · · · · · · · · · · ·	
Depth, Ft. (M)	Description	Well No. (W192) 69
		Location Wilmington
0		Owner Aberjona Packing
ŭ	Peat	Ground Elev. 75
2		Driller
		Drilling Completed 1945
		Type of Rig
		WELL DATA
	•	Hole Diam. 2
		Depth 30
	Sand	Casing Diam.
10	Juna	Casing Depth
		Screen Diam.
13		Screen Setting
	Boulders	Screen Type
	boulders	Well Type Test
16	Sand and gravel	Static Water Level 5
9.0.9.17	•	Date Measured
000		Pumping Depth
		Test Duration
20 0 0		Pumping Rate
000	Gravel, broken	Test Date
1 0 a D1		Test Type
000		Pump Setting
1 40		Specific Gravity
1 - 1		Final Pump Capacity
40		Final Pump Setting
200		Average Pumpage
30 00 30		Samples Taken Yes No x
30	·	No. of Samples
		Type of Samples
	•	Type of Sampies
		Date Sampled
ļ		Samplers
		Will be Analyzed for
}		
		Split Samples to
		Commonts
}		Comments
ţ.		
		REMARKS
1		From Delaney and Gay (1980)
1		

Well Log # 16
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)	Description
0 1:50:00:00:00	

---Sand (fine to coarse) and gravel, some silt

Well No. (GW4) 70
Location Corner of Eames St. and
B&M Railroad, Wilmington
Owner Olin Chemicals
Ground Elev. 80 ft.
Driller Carr-Dee Test Boring
Driller Carr-Dee Test Boring Drilling Completed 10/31/77
WELL DATA
Hole Diam. 14 in. Depth 134 ft.
Depth 13½ ft.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Observational
Static Water Level 2.5 ft
Date Measured 12/6/78
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Date Campled
Date Sampled Samplers
Will be Analyzed for
WITH DE AHATYZEG TOT
Split Samples to
1 1 2 1 1 2 2 1
Comments

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----- REMARKS ----From Geotechnical Engineers

Well Log # ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook Depth, Ft. (M) Description Well No. (W76) 71 Location Wilmington Aberjona Packing 0wner 0.0.0 Ground Elev. 80 Driller 0.0.0 Drilling Completed 1945 0.0.0 Type of Rig\_ .o. o <u>.</u>o ----- WELL DATA -----0.0.0 Hole Diam. 2 · · · · · · · · · Depth -Sand, fine, silty; fine gravel Casing Diam. 0-0:0-01 Casing Depth 0 0 0 Screen Diam. o. o. o. o Screen Setting Screen Type \_ o · o\_: Well Type Test ---- TEST DATA ----Static Water Level 10 Date Measured Pumping Depth Test Duration 4 hr. ---Sand and gravel, brown Pumping Rate 72 4/25 Test Date Test Type Pump Setting Specific Gravity ---Sand and gravel, gray Final Pump Capacity 28 ----Sand and gravel, silty Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples Type of Samples --Shale, bedrock Date Sampled Samplers Will be Analyzed for **38.5** ---Refusal Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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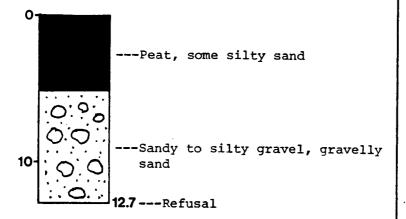
26 Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03 A 30 East Cummings Park Date Prepared 3/12/81 Woburn, MA 01801 Prepared By D. Cook Well No. (W77) 72 Depth, Ft. (M) Description Location Wilmington Owner Aberjona Packing 0-0-Ground Elev. 80 Driller 0 1 0 1 Drilling Completed 1945 Type of Rig ----- WELL DATA -----0-0:0 ---- Sand, fine silty; fine 0.-Hole Diam. 2 gravel Depth 0.0 Casing Diam. Casing Depth 10 Screen Diam. Screen Setting Screen Type Well Type Test ----- TEST DATA -----Static Water Level 6 Date Measured February 1945 Pumping Depth ---- Sand and gravel, brown Test Duration 20 Pumping Rate -Test Date Test Type 22.8 \_\_\_\_ Gravel, broken Pump Setting 23.8 \_\_\_\_ Refusal Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # _	24		
Project Name	Woburn	Well S	urvey
Project #	TDD F1-	8010-0	)3 A
Date Prepared	12/8	/80	
Prepared By_		itto	

Depth, Ft. (M)

Description



Well No. (GW12) 73
Location Eames St. and B&M
Railroad, Wilmington
Owner Olin Chemicals
bround flev.82 ft.
Driller Carr-Dee
Drilling Completed_11/2/77
Type of Rig
WELL DATA
Hole Diam. 14 in.
Depth 12.7 ft.
Casing Diam. 3½ in.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Observational
TEST DATA
Static Water Level 4' 7"
Date Measured 11/12/80
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes_x No_
No. of Samples
Type of Samples Screening

	2/80
Samplers P. Clay	
Will be Analyzed for	
Volatile Organics	
Split Samples to D. V	augha Olia

Comments

From Geotechnical Engineers
Inc. (1978)

Well Log # 28
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

		Prepared By D. Cook
Depth, Ft. (M)	Description	Well No. (W190) 74 Location Wilmington
0 0 0	Peat	Owner Aberjona Packing Ground Elev75 Driller Drilling Completed 1945 Type of Rig
00000000000000000000000000000000000000	Sand and gravel, brown	Hole Diam. 2 Depth 30 Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test TEST DATA Static Water Level 5
20 O O 23 O O 25	Sand and gravel, gray	Date Measured Pumping Depth Test Duration Pumping Rate Test Date Test Type Pump Setting Specific Gravity
0 0 0 0 0 2 29	Sand and gravel, silty	Final Pump Capacity Final Pump Setting Average Pumpage WATER QUALITY
301~~~~	Refusal	Samples Taken Yes No x No. of Samples Type of Samples
		Date Sampled Samplers Will be Analyzed for
		Split Samples to
		From Delaney and Gay (1980)
recycled paper		ecology and environment

Description

Well Log # 29
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

	<del></del>
2	 Peat
10-	 Sand, brown
0 0 7	 Sand and gravel, silty
20 - 0 - 21	 Refusal

Depth, Ft. (M)

Well No. (W191) 75 Location Wilmington Aberjona Packing Owner Ground Elev.75 Driller Drilling Completed 1945 Type of Rig\_ ----- WELL DATA -----Hole Diam. 2 Depth Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test
----- TEST DATA -----Static Water Level 5 Date Measured Pumping Depth Test Duration Pumping Rate 7 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting -Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to

From Delaney and Gay (1980)

ecology and environment

Comments

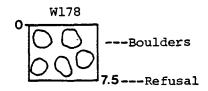
Depth, Ft. (M)	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801  Description	Well Log # 82 Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 12-2-80 Prepared By R. DiNitto  Well No. ( w 168) 76
Depth, Ft. (M)	Description Brown sand and gravel  15Muddy, broken gravel  19	Well No. ( W 168) 76 Location East end of Cott Beverace Plant, N. Woburn Owner Aberjona Packing Ground Elev. 70 ft. Driller Drilling Completed 1945 Type of Rig
recycl <b>es</b> yo <b>lgsi</b> .pa	aper	ecology, and anxionamentative.

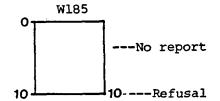
Well Log # 83
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/11/81
Prepared By D. Cook

Depth, Ft. (M)	
----------------	--

Description

0 ----Clay and boulders





Well NOW 170 W170 W185 77 78 90
Well No <sub>W170</sub> , w178, w185, 77,78,80 Location Woburn
Owner Aberjona Packing
Ground Elev. 75, 80, 75
Driller Drilling Completed 1945
Urilling Completed 1945
Type of Rig
Hole Diam
Hole Diam. 2
Depth 8, 8, 10 Casing Diam.
Casing Depth
Casing Depth Screen Diam.
Screen Diam. Screen Setting
Screen Type
Well Type Test
Screen Setting Screen Type Well Type Test
Static Water Level 5, - 5
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Date Sampled
Samplers Analysed for
Will be Analyzed for
Split Samples to
Sprite Sampres to
Comments
REMARKS
From Delaney and Gay (1980)

ccology and environment

Well Log # Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 1/5/81 Prepared By R. DiNitto

Depth, Ft. (M)	Description
0	
ning Con	

---Silty sand & gravel

19 --- Refusal

Well No. (W119) Location Along Aberjona River just West of West St., Reading Owner Well no longer exists Ground Elev. Driller Drilling Completed 1945 Type of Rig

79

----- WELL DATA -----Hole Diam. 2 in. 19 ft. Depth Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----

Static Water Level Date Measured Pumping Depth

Pumping Rate -Test Date Test Type Pump Setting

Test Duration

Specific Gravity Final Pump Capacity Final Pump Setting

Average Pumpage ----- WATER QUALITY -----

Samples Taken Yes No x No. of Samples

Type of Samples

Date Sampled Samplers Will be Analyzed for

Split Samples to Comments

----- REMARKS -----From Delaney and Gay (1980)

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10-

Description

Well Log #	59
Project Name	Woburn Weil Survey
	TDD F1-8010-03 <sub>A</sub>
Date Prepared	12-2-80
Prepared By	P DiNitta

0	•
	Peat
10-	7 Silt and fine sand
	-13
20-	18 Medium sand, gravel 21
0 0	Silt,sand, and gravel

Depth, Ft. (M)

11-11 No
Well No. (B 16) 81
Location Rte. 93. 1.8 miles
North of Rte. 128
Owner State of MA
Ground Elev. 63 Ft.
Driller
Drilling Completed
Type of Rig
WELL DATA
Hole Diam. 2 in.
Depth 25 ft.
Depth 25 ft. Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Test-Unused
Well Type Test-Unused
Static Water Level 1 ft.
Date Measured 8-55
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Type of Samples
Nate Sampled
Samplers
Will be Analyzed for
WITH DE MHATYZEG TOP
Split Samples to
Spire Samples to
Comments
OGMAGII 63
REMARKS
From Delaney and Gay (1980)
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Well Log # 81
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12-2-80
Prepared By R. DiNitto

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Depth, Ft. (M)	Description	Well No. (W 164) 82
		Location At South end of pond,
_		1000 ft. South of W 168
0	•	Owner Aberjona Pæking
1.0::0:		Ground Elev. 70 ft.
1 U 1		Driller
		Drilling Completed 1945
		Type of Rig
		WELL DATA
$ \mathcal{O} $	Sand and gravel	Hole Diam. 2 in.
		Depth 25 ft.
1:0::::		Casing Diam.
10		Casing Depth
0: :	·	Screen Diam.
		Screen Setting
$ \mathcal{O}:\mathcal{O} $		Screen Type
14		Well Type Test-Unused
15	Fine sand	TEST DATA
		Static Water Level 5 ft.
1001		Date Measured
		Pumping Depth
	Brown sand and gravel	Test Duration
20 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>3</b> -	Pumping Rate
		Test Date
		Test Type
		Pump Setting
25		Specific Gravity
		Final Pump Capacity
		Final Pump Setting
		Average Pumpage
		WATER QUALITY
		Samples Taken Yes No X
		No. of Samples
		Type of Samples
	·	
		Date Sampled
		Samplers
		Will be Analyzed for
		Split Samples to
	·	Comments
	· · · · · · · · · · · · · · · · · · ·	REMARKS
		From Delaney and Gay (1980)
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Well Log # 84

Project Name Woburn Well Survey

Project # TDD F1-8010-03 A

Date Prepared 12-2-80

Prepared By R. DiNitto

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		Prepared By R. DiNitto
Depth, Ft. (M)	<u>Description</u>	Well No. (w 176) 83 Location N. Woburn Landfill Area Owner Aberjona Packing
2Brown		Ground Elev. 70 ft.  Driller  Drilling Completed ?  Type of Rig  WELL DATA  Hole Diam. 2 in.  Depth 28 ft.  Casing Diam.
10- 14		Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test TEST DATA Static Water Level Date Measured 2-45
20-0	sand and gravel gravel; gray	Pumping Depth Test Duration 3 hrs. Pumping Rate 92 GPM Test Date Test Type Pump Setting Specific Gravity Final Pump Setting Final Pump Setting
30Broken	gravel; gray	Average Pumpage WATER QUALITY Samples Taken Yes No x No. of Samples Type of Samples  Date Sampled
		Samplers Will be Analyzed for  Split Samples to  Comments
		From Delaney and Gay (1980)

Well Log # 85

Project Name Woburn Well Survey

Project # TDD F1-8010-03A

Date Prepared 12-2-80

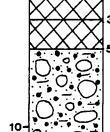
Prepared By R. Dinitto

		Prepared By R. DiNitto
0Topsoil 2Fine sand	Description	Well No.(w 183) 84 Location N. Woburn Landfill Area Owner Aberjona Packing Ground Elev. 70 ft. Driller Drilling Completed 1945 Type of Rig
	gravel near bottom	Static Water Level oft.  Date Measured 1945  Pumping Depth 8 ft. DD  Test Duration 5 hrs.  Pumping Rate 100 GPM  Test Date  Test Type  Pump Setting  Specific Gravity  Final Pump Capacity  Final Pump Setting  Average Pumpage
		Date Sampled Samplers Will be Analyzed for  Split Samples to  Comments  REMARKS From Delaney and Gay (1980)
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Well Log # 67
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)

Description



Brown, fine to coarse SAND, some Gravel (FILL)

5.5Mottled fine to coarse SAND and fine to coarse GRAVEL little Silt with Cinders

Gray, coarse to fine GRAVEL and fine to coarse SAND,

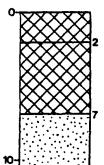
2.1<sub>12.5</sub> Refusal

Date Prepared 3/12/81
Prepared By D. Cook
Well No. (GZ-1) 85
Location Woburn
Location woburn
Owner Janpet Associates
Ground Elev.
Driller Carr-Dee Drilling Completed 1/12/81
Drilling Completed 1/12/81
Type of Rig
Type of Rig WELL DATA
Hole Diam. 1.5 in.
Donth 1.5 In.
Cooin Dian
Depth 12.5 ft. Casing Diam. 6 in.
Casing Debch J=1.7
Screen Diam. 1.5 in.
Screen Setting .
Screen Type
Well Type Monitoring
Well Type Monitoring TEST DATA
Static Water Level 6.5
Date Measured 1/10/01
Date Measured 1/12/81
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Catting
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
· . ·
Data Sampled
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Comments
Comments
REMARKS
Courtesy John Ayres
Goldberg Zoino and Assoc, Inc.
Newton MA
ecology and environment
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Well Log # 64
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)

**Description** 



FILL

Brown and black GRANULAR FILL, some Coal

Black, fine to medium SAND, little Silt
Gray to black, fine to medium
SAND little Silt

Bottom of boring at 11.0'

Date Prepared 3/12/81
Prepared By D. Cook
D. COOK
<del></del>
Wall No ( P 1/ A) 96
Well No. (B 14 A) 86 Location Woburn
Location Woburn
Output and a second and a
Owner Janpet Associates
Ground Elev.
Driller Carr Dee Drilling Completed <u>1/19/81</u>
Drilling Completed1/19/81
Type of Rig
WELL DATA
Hole Diam. 1 1/2"
Depth 11
Casing Diam. 6"
Casing Depth Screen Diam. 1 1/2"
Screen Diam. 1 1/2"
Screen Setting
Screen Type
Well Type
TEST DATA
Static Water Level 5.7'
Date Measured 1/19/81
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Canacity
Final Pump Capacity Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Type of Samples
Data Campled
Date Sampled
Samplers Will be Analyzed for
Will be Analyzed for
A 115 A 1 - 5 - 5 - 5
Split Samples to
Comments
REMARKS
Courtesy of John Ayres
Goldberg Zoino and Assoc.
Inc. Newton, MA

62 Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03A Date Prepared 3/12/81 pared By D. Cook

		Prepared By D. Cook
Depth, Ft. (M)	<u>Description</u>	Well No. (B-6A) 87 Location Woburn
•	FILL	Owner Janpet Associ Ground Elev. Driller Carr-Dee Drilling Completed 1/ Type of Rig
10-	Brown, fine to medium SAND	Depth 23' Casing Diam. Casing Depth Screen Diam. 1 1/2" Screen Setting Screen Type Well Type Monitoring TEST DATA
20-		Static Water Level 5 Date Measured 1719 Pumping Depth Test Duration Pumping Rate Test Date Test Type
		Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting
		Average Pumpage WATER QUALIT Samples Taken Yes No. of Samples Type of Samples
,		Date Sampled Samplers Will be Analyzed for
		Split Samples to
	·	Comments

11 No.<u>(B-6A) 87</u> cation Woburn ner Janpet Associates ound Elev. iller Carr-Dee illing Completed 1/19/81 pe of Rig ----- WELL DATA ----le Diam. 1 1/2" pth sing Diam. sing Depth reen Diam. 1 1/2" reen Setting 6.4-11.4 reen Type 11 Type Monitoring ----- TEST DATA ----atic Water Level 5.4' ite Measured 1/19/81 mping Depth st Duration mping Rate st Date st Type mp Setting ecific Gravity nal Pump Capacity nal Pump Setting erage Pumpage ----- WATER QUALITY ----mples Taken Yes No x . of Samples pe of Samples te Sampled mplers

lit Samples to mments ----- REMARKS -----Courtesy of John Ayres-Goldberg

Zoino and Assoc. Inc, Newton,

ecology and environment

MA.

Well Log # 70
Project Name Woburn Well Survey
Project # TDD F1-8010-03:A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)	Description
° 7	
4.5	

Fine to coarse gray GRAVEL and

.5Fine to medium SAND

fine to coarse SAND

Well No (C7 () C2
Well No. (GZ-4) 88 Location Woburn
Owner Jampet Associates
Ground Elev.
Driller Carr-Dee
Drilling Completed 1/15/81
Type of Rig
Hole Diam. 1 1/2" Depth 20'
Casing Diam.
Casing Depth
Screen Diam. 1 1/2" Screen Setting 4.65-6.65' Screen Type
oci celi Type
Well Type
TEST DATA
Static Water Level 8.15'
Date Measured 1/16/81
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Date Complete
Date Sampled
Samplers Will be Analyzed for
Will be Analyzed for
Split Samples to
SPITE SWIPTES TO
Comments
REMARKS
Courtesy of John Ayres
Courtesy of John Ayres Goldberg Zoino and Assoc. Inc.
Newton, MA
ecology and environment

20 Refusal

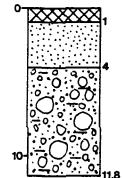
60 Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook Depth, Ft. (M) Description Well No(B-2A) 89 Location Woburn Janpet Associates Owner Ground Elev. Driller Carr-Dee Drilling Completed 1/16/81 Type of Rig ----- WELL DATA -----Hole Diam. 1 1/2" Depth 32' ---- Augered to 23.5 feet prior to sampling Casing Diam.6" Casing Depth 10-Screen Diam. 1 1/2" Screen Setting 17.5 - 22' Screen Type Well Type Monitoring
----- TEST DATA -----Static Water Level 9.65' Date Measured 1/16/81 Pumping Depth Test Duration 20 -Pumping Rate 7 Test Date Test Type 23.5 ---- Brown, fine to medium Pump Setting SAND Specific Gravity Final Pump Capacity ---- Gray, fine to coarse SAND Final Pump Setting some fine to coarse Average Pumpage Gravel, little Silt ----- WATER QUALITY -----30 -0.00 Samples Taken Yes Light brown, medium No. of Samples GRAVEL, little fine to Type of Samples coarse Sand, trace Silt Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----Courtesy of John Ayres-Goldberg Zoino and Assoc. Inc., Newton MA

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Well Log # 63
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

# Depth, Ft. (M)

## Description



Fill

Light brown, medium SAND, trace medium Gravel, trace Silt

Fine to coarse GRAVEL and fine to coarse SAND, trace + Silt (GLACIAL TILL)

Medium GRAVEL and SAND, trace Silt

Refusal of A-rod @11.8 feet

Prepared By D. Cook
D. 0008
Well No. (E 9A) 90
Location Woburn
Owner Jampet Associates
Ground Elev.
Driller Carr-Dee
Driller <u>Carr-Dee</u> Drilling Completed 1/15/81
Type of Rig
WELL DATA
Hole Diam. 1 1/2"
Depth 11.8'
Casing Diam. 6"
Casing Depth
Screen Diam. 1 1/2"
Screen Setting
Screen Type
Well Type
TEST DATA
Static Water Level 9.051
Date Measured 1/16/81
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Data Campled
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Shire 20 co
Company
Comments
DEMANUS
Courtesy John Ayres-Goldberg
Zoino and Assoc., Inc.,
_Newton, MA
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Well Log # 92 Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 1/5/81 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (W 306) 91 Location 400 ft. northeast of W 304 Owner Well no longer exists Ground Elev. 65 ft. Driller Drilling Completed 1957 --Artificial fill Type of Rig ----- WELL DATA -----Hole Diam. 2 in. Depth 48 ft. Casing Diam. Casing Depth 42 ft. 10-Screen Diam. Screen Setting Screen Type Well Type Test-Unused --Coarse gravel ----- TEST DATA -----Static Water Level 4 ft. 11-57 Date Measured Pumping Depth Test Duration 2 Hr. Pumping Rate -80 GPM 20 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No X 30 No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for 40-Split Samples to Comments -Broken rock ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Date Prepared 1/5/81 Woburn, MA 01801 Prepared By R. DiNitto Depth, Ft. (M) Description Well No.(W 304) 92 Location N. Wob. 0.1 mi. north of Halls Brook east of R & R Owner well no longer exists Ground Elev. 65 ft. Driller Drilling Completed 1957 -Artificial fill Type of Rig ----- WELL DATA -----Hole Diam. 2 in. 64 ft. Casing Diam. Casing Depth 45 ft. 20 Screen Diam. --- Coarse gravel and boulders Screen Setting Screen Type Well Type Test-Unused Static Water Level 7 Date Measured 11/57 Pumping Depth --- Coarse sand and gravel Test Duration Pumping Rate 35 GPM Test Date Test Type Pump Setting Specific Gravity 50 Final Pump Capacity ---Fine to medium sand Final Pump Setting -Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No X 60 No. of Samples Type of Samples 64\_--Refusal Date Sampled Samplers Will be Analyzed for Split Samples to Comments From Delaney and Gay (1980)

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Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Date Prepared 1/5/81 Woburn, MA 01801 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (W 305) 93 Location North end of Halls Brook (Mishawum Lake) Owner Well no longer exists Ground Elev. 55 ft. --Artificial fill Driller Drilling Completed Type of Rig WELL DATA -----Hole Diam. 2 in. Depth 62 ft. ---Sand and gravel Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type <u>Test-Unused</u> ----- TEST DATA -----Static Water Level Nov 1957 Date Measured Pumping Depth Test Duration Pumping Rate Test Date Test Type ---Clay to fine sand Pump Setting Specific Gravity 50-Final Pump Capacity Final Pump Setting Average Pumpage ---Sand and gravel ----- WATER QUALITY -----Samples Taken Yes No X 62--Refusal No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Description

Well Log # 53
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 12-2-80
Prepared By R. DiNitto

0 .		
	Peat	,
10	12	
	Sand	(medium, gray)
20 .	Sand	(fine); some silt and gravel
30	26 Sand	(fine to medium); silt

Depth, Ft. (M)

Well No.(B 7) 94 Location Rte. 93, 1.3 miles north of Rte. 128 Owner <u>State of MA</u> Ground Elev. <u>63 feet</u> Driller Drilling Completed 1955 Type of Rig ----- WELL DATA -----Hole Diam. Depth 30 reet Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----Static Water Level 2 feet Date Measured 8-55 Pumping Depth Test Duration Pumping Rate -Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes\_\_\_No\_x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

ecology and environment, inc.

Well Log # 94
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

		Lichaica of K. DINIEGO
Depth, Ft. (M)	Description	Woll No (12 227) 101
Depuis ic. (M)	<u> </u>	Well No.(W 371) ICI
		Location Under Marshalls Ware-
		house along Commerce Way, Woburn
0		Owner Well no longer exists
[ ] [ ] [ ]		Ground Elev. 70 ft.
1.0.0.		Driller
· ^ : !		Drilling Completed 1957
		Type of Rig
		WELL DATA
$1.70 \cdot 1$	•	Hole Diam. 2 in.
		Depth 30.5 ft.
1.0		Casing Diam.
10 . 0		Casing Depth
10-		Screen Diam.
1.		Screen Setting
$ \cdot $		Screen Type
0.0		Well Type Test Unused
	Plan Coult of	TEST DATA
	Fine Sand & Gravel	Static Water Level 5
		Date Measured
0.		Pumping Depth
		Test Duration
20-		Pumping Rate
1		Test Date
		Test Type
		Pump Setting
		Specific Gravity
[ ( ) (		Final Pump Capacity
		Final Pump Setting
		Average Pumpage
		WATER QUALITY
	•	Samples Taken Yes No x
30-1.030	0.5	No. of Samples
	,	Type of Samples
		Date Sampled
		Samplers
		Will be Analyzed for
		Split Samples to
		Comments
		REMARKS
		From Delaney and Gay (1980)
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recycled paper		Civility that Christian III

Well Log # 98 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03 A Date Prepared 1/5/81 Woburn, MA 01801 Prepared By R. DiNitto Well No. (W391) 104 Location 0.1 mi. East from Depth, Ft. (M) Description W381 Well no longer exists Owner Ground Elev. 55 ft. Driller Drilling Completed 1958 Type of Rig ----- WELL DATA -----Hole Diam. 2 in.
Denth 28 ft. Casing Diam. Casing Depth 28 ft. Screen Diam. Screen Setting Screen Type Well Type Test-Unused ---Fine sand & gravel ----- TEST DATA -----Static Water Level 2 Date Measured February 1958 Pumping Depth Test Duration Pumping Rate 7 20 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting 28 ---Refusal Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples\_ Type of Samples\_ Date Sampled Samplers Will be Analyzed for Split Samples to Comments

From Delaney and Gay (1980)

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Well Log # 97 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 1-5-81 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (W382) 105 Location 0.2 mi. East of W381 Owner Well no longer exists Ground Elev. 65 ft. -Artificial fill Driller Drilling Completed 1957 Type of Rig Hole Diam. 2 in. 38 feet Depth Casing Diam. Casing Depth 10 Screen Diam. Screen Setting ---Coarse sand Screen Type Well Type Test-Unused Static Water Level 4 Date Measured August 1957 Pumping Depth Test Duration Pumping Rate -63 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes 30. No. of Samples Type of Samples 35 Date Sampled Samplers --Clay & gravel, black Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 1-5-81 Prepared By R. DiNitto Well No. (W381) 106 Depth, Ft. (M) Description Location 0.1 mi. north from W374 Owner Well no longer exists Ground Elev. 65 ft. Driller Drilling Completed Type of Rig ----- WELL DATA -----Hole Diam. 2 in. 49 ft. Depth Casing Diam.\_ Casing Depth 49 ft. 10 Screen Diam. Screen Setting Screen Type Well Type Test-unused ----- TEST DATA -----Static Water Level 11 Date Measured August 1957 ---Fine Sand Pumping Depth Test Duration Pumping Rate [ 20-Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x 30-No. of Samples Type of Samples Date Sampled Samplers 37 Will be Analyzed for ---Sand; some gravel Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980) **49---**Refusal ecology and environment recycled paper

Well Log # ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 1/5/81 Prepared By P. DiNitto Well No. (W374) 107 Depth, Ft. (M) Description Location 0.4 mi. North along Commerce Way from Rt. 128 Owner Well no longer exists Ground Elev. 60 ft. Driller Drilling Completed 1957 Type of Rig Hole Diam. 2 in. 44.5 ft. Depth Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Test-Unused ----- TEST DATA -----Static Water Level Date Measured Pumping Depth --- Sand & Gravel Test Duration Pumping Rate -67 GPM 20 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting 7 Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No  $\mathbf{x}$ 30 No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to 40 Comments ----- REMARKS -----From Delaney and Gay (1980)

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EC	OLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 112 Project Name Woburn Well Su Project # TDD F1-8010-03 Date Prepared Prepared By
Depth, Ft. (M)	Description	Well No. ( W428 ) 108 Location 0.2 mi. West of
0	Topsoil	Owner Well no longer exis
2	-	Ground Elev. 65 ft. Driller
		Drilling Completed 1959
40		Type of RigWELL DATA
10-		Hole Diam. 2 in.
		Depth 92 ft.
		Casing Diam. Casing Depth
20-		Screen Diam.
		Screen Setting Screen Type
		Well Type Test-Unused
30-		Static Water Level 17
		Date Measured 8/59
		Pumping Depth
40-		Test Duration Pumping Rate
~     -	Fine sand; trace of gravel and silt	Test Date
	SIIC	Test Type Pump Setting
		Specific Gravity
50 0		Final Pump Capacity Final Pump Setting
		Average Pumpage
		WATER QUALITY
60-	·	Samples Taken Yes No. of Samples
	• •	Type of Samples
70-		Date Sampled
		Samplers Will be Analyzed for
		Will be Analyzed for
80-	•	Callit Camples to
<b>~</b>   ′ , .		Split Samples to
		Comments
90-	Refusal	
92	RELUSAL	From Delaney and Gay (198
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Well Log # 113 ECOLOGY AND ENVIRONMENT. INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 1-5-81 Prepared By R. DiNitto Well No. ( W429 ) 109 Depth, Ft. (M) Description Location Just southeast of W428 Owner Well no longer exists --Topsoil Ground Elev. 60 ft. Driller Drilling Completed 1959 Type of Rig ----- WELL DATA -----10 Hole Diam. 2 in.
Denth 96 ft. ---Fine sand Depth Casing Diam. Casing Depth 20 Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----30 Static Water Level Date Measured 8/59 Pumping Depth Test Duration Pumping Rate Test Date Test Type Pump Setting Specific Gravity --- Very fine sand, some silt & 50 Final Pump Capacity clay Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No X No. of Samples Type of Samples Date Sampled 70 Samplers Will be Analyzed for 80 Split Samples to Comments 90 ----- REMARKS -----From Delaney and Gay (1980) 96---Refusal

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Well Log # 76
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

		Prepared By R. DiNitto
Depth, Ft. (M)	<u>Description</u>	Well No. (W61) 110
	<del></del>	Location Within Halls Brook
	,	(formerly Mishawum Lake) .
0		Owner Well no longer exists
0		Ground Elev. 70 ft.
		Driller
		Drilling Completed 1934
		Type of Rig
		WELL DATA
		Hole Diam. 18 in.
1		Depth 39 ft.
		Casing Diam.
	Can'd marked noon bottom	Casing Depth 35 ft.
10-	-Sand, gravel near bottom	Screen Diam.
		Screen Setting
		Screen Type
		Well Type Industrial
		TEST DATA
· · · ·		Static Water Level 4
		Date Measured Nov 1934
		Pumping Depth
		Test Duration
20-		Pumping Rate 276
0.0		Test Date
100		Test Type
		Pump Setting
24		Specific Gravity
10.01		Final Pump Capacity
000		Final Pump Setting
000		Average Pumpage
		WATER QUALITY
30 0	-Gravel	Samples Taken Yes x No
1 ( )		No. of Samples
1000	-	Type of Samples
00		Standard Water Quality
000		
1000		Date Sampled 10/21/58
		Samplers
1001		Will be Analyzed for
0 0	Refusal	
	Notabat	Callin Carrier ha
		Split Samples to
		Comments
		Comments
		REMARKS
		From Delaney and Gay (1980)
		From Detailey and Gay (1700)
		ecology and environment
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recycled paper

Well Log # 77
Project Name Woburn Well Survey
Project # TDD FI-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

	Prepared By R. DiNitto
	·
Depth, Ft. (M) Des	cription   Well No. (W62) 111
	Location Within Halls Brook
	(former Mishawum Lake) .
	Owner No longer exists
O-Loam	Ground Elev. 70 ft.
2	Driller
	Drilling Completed 1935
	Tune of Dia
Sand, some of it	fine Type of Rig
10-	WELL DATA
	Hole Diam. 18 in.
16	Depth 87 ft.
0 0~0	Casing Diam.
	Casing Depth
20 Gravel	Screen Diam
18081.	Screen Setting
25	Screen Type
	Well Type Industrial
	TEST DATA
30Fine sand	Static Water Level 6
	Date Measured
	Pumping Depth
	Test Duration
40-	Pumping Rate 1500
	Test Date
44	Test Type
	Pump Setting
10001	Specific Gravity
50-100	Final Pump Capacity
OGravel	Final Pump Setting
	Average Pumpage
100	WATER QUALITY
1,001	Samples Taken Yes X No
60-10	No. of Samples
63	Type of Samples
	Standard Water Quality
	Standard Water guarrey
Coarse sand	Date Sampled 10/21/58
70-	Samplers
74	Will be Analyzed for
	WITT DE AllaTyzed TOT
1.	<del></del>
80 Clay and fine san	nd College Complete
	Split Samples to
	Company
97	Comments
• • • • • • • • • • • • • • • • • • •	
	DEMANUE
	From Delaney and Gay (1980)
	Flow Detailey and Gay (1900)

Well Log # 75
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

ecology and environment

	Depth, Ft. (M)	<u>Description</u>	Well No. (W 55) 112
		,	Location Within Halls Brook
i	0-		(formerly Mishawum Lake)
	Top	soil	Owner Well no longer exists
	5		Ground Elev. 70 ft.
			Driller
	10-		Drilling Completed 1952
	• 1		Type of Rig
Ì			WELL DATA
I	•San	d, fine to coarse	Hole Diam. 18 in.
l	• • •		Depth 86 ft.
Ì	20-		Casing Diam.
I			Casing Depth
1	25		Screen Diam.
			Screen Setting
ı			Screen Type
١	30-	_	Well Type Industrial-Unused
1	0 0:Sand	1 & gravel	TEST DATA
I	1		Static Water Level 4 ft
1	] .U:o:		Date Measured 3-52
	40-		Pumping Depth
ı	42		Test Duration 7 hr.
			Pumping Rate 530 GPM Test Date
I			Test Type
			Pump Setting
	50-	cand	Specific Gravity
١	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand	Final Pump Capacity
Į			Final Pump Setting
			Average Pumpage
I	60-		WATER QUALITY
I	63		Samples Taken Yes X No
ı	65C1	ay, silt and sand	No. of Samples
١	05	7,	Type of Samples
		·	Standard Water Quality
1	70	d, fine and coarse	Scandard Nassz games
Į		•	Date Sampled 9/4/58
I	• • • • • • • • • • • • • • • • • • • •		Samplers
I	76	1	Will be Analyzed for
l	80- ::0:0:78c	lay	
	1. (\) '/ \). '!	3	
l		d, gravel and pebbles	Split Samples to
١			
I			Comments
İ	•		
I			
J			
			REMARKS
			From Delaney and Gay (198
		<u>.</u>	
ļ		·	
1			

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Well Log # 117
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1-5-81
Prepared By R. DiNitto

		rrepared by R. Dinicto
Depth, Ft. (M)	Description	Well No. ( W438 ) 113
beptil, it. (14)	Description	Location Within Halls Brook
	v	(former Mishawum Lake)
		Owner Well no longer exists
O-Topso	oil & Peat	Ground Elev. 55 it.
		Driller
		Drilling Completed 1964
8		Type of Rig
		WELL DATA
10-		Hole Diam. 24 in.
$\Gamma \circ \gamma$		Depth 61 ft.
ω. ω.	_	Casing Diam.
Fine	to medium sand, and gravel	
20 0		Casing Depth Screen Diam.
		· · · · · · · · · · · · · · · · · · ·
		Screen Setting
26		Screen Type
[0]		Well Type Industrial
30-1		Static Water Level9_ft.
		Date Measured May 1964
		Pumping Depth
		Test Duration 02 hours
		Test Duration 92 hours
401.		Pumping Rate 720 GPM Test Date May 1964
	um to coarse sand and	Test Date May 1964 Test Type
grav	el	Pump Setting
1		Specific Gravity
50		Final Pump Capacity
		Final Pump Setting
· · · · · ·		
10.		Average Pumpage WATER QUALITY
		Samples Taken Yes No x
60	•	No. of Samples
		Type of Samples
	•	Type or Samples
,		Date Sampled
		Samplers
		Will be Analyzed for
		Will be Analyzed 101
		Split Samples to
		Comments
		REMARKS
		From Delaney and Gay (1980)

Well Log # 78 Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 1/5/81 Prepared By R. DiNitto

Depth, Ft. (M)	Description	Well No. (W 63) 114
		LocationWithin Halls
	' i	(former Mishwum Lake)
0		Owner Well no longer
0	Mud	Ground Elev.70 ft.
• • • • • • • •	Fine sand	Driller
5		Drilling Completed 19
	Sand and gravel	Type of Rig
10 10		WELL DATA
		Hole Diam. 18 in.
		Depth 83 ft.
		Casing Diam.
		Casing Depth
20-	Sand	Screen Diam.
		Screen Setting
2!	5	Screen Type
	<u> </u>	Well Type Industrial-
		TEST DATA
30-		Static Water Level
		Date Measured 2
· :===  _	Clay and fine sand	Pumping Depth
<del>,</del>	, <del></del>	Test Duration
40-		Pumping Rate 1000 GPM
40   :		Test Date
		Test Type
		Pump Setting
· · · <del>· · · ·</del>		
50-		Specific Gravity
		Final Pump Capacity
5	<b>=</b>	Final Pump Setting
, ; · · · · · · · · · · · · · · · · · ·		Average Pumpage
	Sand	WATER QUALIT
60		Samples Taken Yes
		No. of Samples Type of Samples
60	s ·	Type of Samples
		<del></del>
70 = -	Clay and sand	Data Sampled
70	-	Date Sampled
<u> </u>		Samplers
<u>-0-</u>	Clay and gravel	Will be Analyzed for
		<del></del>
801 => -		California to
	3	Split Samples to
•		Composto
		Comments

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11 No.(W 63) 114 cationWithin Halls Brook rmer Mishwum Lake) ner Well no longer exists. ound Elev.70 ft. iller illing Completed 1936 pe of Rig ----- WELL DATA ----le Diam. 18 in. pth 83 ft. sing Diam. sing Depth reen Diam. reen Setti<del>ng</del> reen Type 11 Type Industrial-Unused ----- TEST DATA ----atic Water Level 6 ft. te Measured mping Depth st Duration mping Rate 1000 GPM st Date st Type mp Setting ecific Gravity nal Pump Capacity nal Pump Setting erage Pumpage ----- WATER QUALITY ----mples Taken Yes No x . of Samples pe of Samples te Sampled

lit Samples to

mments

----- REMARKS -----From Delaney and Gay (1980)

Well Log # 79 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 1/5/81 Prepared By R. DiNitto Depth, Ft. (M) Well No. (W64) 115 Description Location Within Halls Brook (former Mishawum Lake) Owner Well no longer exists Ground Elev. 70 ft. Driller Drilling Completed Type of Rig ----- WELL DATA -----10 Hole Diam. 24 in. Depth 78 ft. Depth Casing Diam. Casing Depth 20. Screen Diam. Screen Setting --Sand, some fine Screen Type
Well Type Industrial
----- TEST DATA -----30 Static Water Level Date Measured Pumping Depth Test Duration 350 GPM Pumping Rate -40 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY --------Gravel Samples Taken Yes x No. of Samples Type of Samples Standard Water Quality Date Sampled 10/21/58 70 ---Fine Sand Samplers Will be Analyzed for Gravel Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 57
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/25/80
Prepared By R. DiNitto

De	pth	, Ft	. (	(M)

Description

0_	 	
	 •	Sand
		8Refusal

11-12 11- (-1-)
Well No. (B12) 116
Location Rt. 128, 1.6 mi. west
of Rt. 93
Owner State of MA Ground Elev. 104 feet
Ground Elev. 104 feet
Duaillow I
Drilling Completed 1949
Type of Rig
WELL DATA
Hole Diam.
Depth 8 ft.
Depth 8 ft. Casing Diam.
Casing Denth
Casing Depth
Screen Diam.
Screen Setting
Screen Type Well Type Test-Unused
Well Type Test-Unused
IESI DATA
Static Water Level
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Test Type Pump Setting Specific Gravity
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Complex Takes Ves No v
Samples Taken Yes No x
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
-
Split Samples to
Comments
00.111100
DEMANUE
From Dolonov and Cov (1980)
From Delaney and Gay (1980)

Well Log # 56 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 11/25/80 Prepared By R. DiNitto Depth, Ft. (M) Description Well No.(B 11) 117 Location Rt. 128, 1.2 miles west of Rt. 93 Owner State of MA Ground Elev. 91 ft. Driller Drilling Completed 1949 Type of Rig ----- WELL DATA -----Hole Diam. Depth 72 ft. ---Sand and gravel Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----·0|30.6 Static Water Level Date Measured Pumping Depth Test Duration Pumping Rate -Test Date Test Type ---Sand and gravel, some clay Pump Setting Specific Gravity Final Pump Capacity 50. Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No. of Samples Type of Samples Date Sampled Samplers 72---Refusal Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 55
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 11/25/80
Prepared Ry B Prepared Ry

•	Prepared By R. DiNitto
	<del></del>
Depth, Ft. (M) Description	Well No. (B 10) 118
	Location Rt. 128, one mile
9	west of Rt. 93
0	Owner State of MA
OArtificial Fill	Ground Elev. 58 ft.
1.5 Sand	Driller 1949
5	Drilling Completed
[-,', 5-]	Type of Rig
10]. · · · ·	WELL DATA
	Hole Diam.
	Depth 96 ft.
	Casing Diam.
	Casing Depth
20	Screen Diam.
	Screen Setting
	· Screen Type
	Well Type Test-Unused
30	TEST DATA
30	Static Water Level 11 ft.
Fine Sand	Date Measured 9-1949
. · · · · · · · · · · · ·	Pumping Depth
	Test Duration
40] .	Pumping Rate
] * . *	Test Date
	Test Type
1. •	Pump Setting
	Specific Gravity
50	Final Pump Capacity
	Final Pump Setting
	Average Pumpage
	WATER QUALITY
60	Samples Taken Yes No x
1	No. of Samples
	Type of Samples
	Data Campled
70	Date Sampled Samplers
·—··,—· 10•3	Will be Analyzed for
	will be Analyzed for
·· <del>··</del> ·	
	Split Samples to
80	Spire Samples to
Clay and fine sand	Comments
···	Commencs
90 -: -:	
] <u>-                                   </u>	REMARKS
	From Delaney and Gay (1980)
96Refusal	Trom Dorancy and day (1700)
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Well Log # 54

Project Name Woburn Well Survey

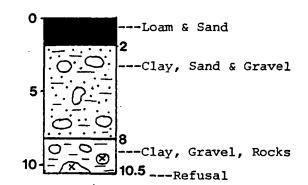
Project # TDD F1-8010-03 A

Date Prepared 11/25/80

Prepared By R. DiNitto

Depth, Ft. (M)

Description



Well No. (B9) 119
Location Rte. 128, 1 mile west
of Rte. 93
Owner State of MA
Ground Elev. 119 feet
Driller
Drilling Completed 1949
Type of Rig
WELL DATA
Hole Diam.
Depth 10.4 feet
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Test-Unused
Static Water Level
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Type of Sumpres
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Comments
REMARKS

From Delaney and Gay (1980)

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--Clay, fine brown sand and gravel

Well Log # 114
Project Name Woburn Well Survey
Project # T00 F1-8010-03 A
Date Prepared 11/25/80
Prepared By R. DiNitto

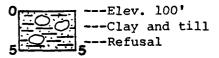
Depth, Ft. (M)

Description

W122

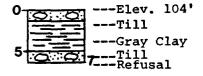
O-Elev. 95'
3-Peat

W120



---Refusal

W121

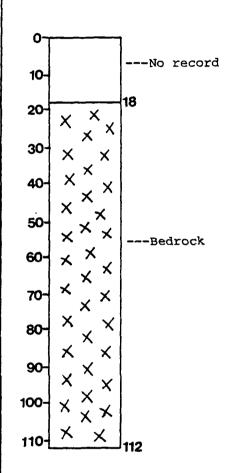


vale Prepared 11/25/80	
Prepared By R. DiNitto	
<del></del>	
Well No 47 420-422	
Well No. (W 430-432) 122,120,121	
Location Hurlbert Datsun	
(formally Salada Tea)	
Owner Washington St. South o	Rt
Ground Elev. 95 feet	128
Driller	
Onilling Completed 1059	
Drilling Completed 1958	
Type of Rig	
WELL DATA	
Hole Diam. 2 in.	
Depth 15 ft., 5 ft., 7 ft.	
Casing Diam.	
Casing Depth	
Screen Diam.	
Screen Setting	
Screen Type	
Well Type Test-Unused	
TEST DATA	
Static Water Level Oft., 3ft,0	ft.
Date Measured 12-58	
Pumping Depth	
Test Duration	
Pumping Rate	
Test Date	
Test Type	
Pump Setting	
Specific Gravity	
Final Pump Capacity	
Final Pump Setting	
Avenue Dumpere	
Average Pumpage	
WATER QUALITY	
Samples Taken Yes No x	
No. of Samples	
Type of Samples	
	: 
Data Complet	!
Date Sampled	
Samplers	İ
Will be Analyzed for	
Split Samples to	
SPITE Jumpies CO	
Comments	
·	
	ı
REMARKS	
1	
From Delaney and Gay (1980)	
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Well Log # 3
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

Depth, Ft. (M)

Description



Well No. (W4) 124 Location Corner of Pine Ridge and Walnut St., Reading Owner H.O. Howe Ground Elev. 120 ft. Driller Drilling Completed 1957 Type of Rig
Samples Taken Yes No X No. of Samples
Type of Samples
Date Sampled Samplers Will be Analyzed for

Split Samples to

From Delaney And Gay (1980)

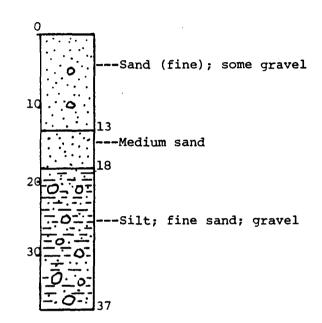
ecology and environment

Comments

Well Log # 1
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/25/80
Prepared By R. DiNitto

Depth, Ft. (M)

Description



Hall No.
Well No. (B1) 125
LOCation Intersection between
(Reading) Rte. 128 and Rte. 93  Owner State of MA
Owner State of MA
Ground Elev. 109 feet
Driller
Drilling Completed
Type of Pig
Type or Kig
Type of Rig WELL DATA
Hole Diam. Depth 37 feet Casing Diam.
Depth 37 feet
Casing Diam.
Casing Depth Screen Diam.
Screen Diam.
Screen Setting
Screen Type Well Type Test-Unused
Well Type Test-Unused
TEST DATA
Static Water Level 14 feet
Date Measured 6-1955
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Type or samples
Data Complete
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Comments
Commence
REMARKS
From Delaney and Gay (1980)

ecology and environment

115 Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 11/18/80 Woburn, MA 01801 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (w 435) 126 Location Southside Olympia Ave. just west of RR Owner Lamont Ground Elev. 50 Ft. Driller Drilling Completed 1969 Type of Rig ----- WELL DATA -----104 Hole Diam. 2 in. ---Sand (fine, brown); some gravel Depth 90 ft. Log.86 (USGS) Casing Diam. Casing Depth 20 Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----30 Static Water Level 6 ft. Date Measured 5-69 Pumping Depth Test Duration 3 hrs. 40 Pumping Rate 36 GPM Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity ---Sand (fine, brown); some clay Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes 60. No. of Samples Type of Samples Date Sampled 70 Samplers Will be Analyzed for Split Samples to ---Sand (course, brown) and gravel Comments 86 ---Sand (fine, brown) and gravel 90 ... O... 90---Refusal ----- REMARKS -----From Delaney and Gay (1980)

Well Log # 87 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03 A Woburn, MA 01801 Date Prepared 11/18/80 Prepared By R. DiNitto Description Depth, Ft. (M) Well No.(W 263) 127 Location 600 ft. NE of Golden School in East Woburn Owner Johnson Bros. (Cummings) Ground Elev. 75' MSL Driller Drilling Completed 1958 Type of Rig ----- WELL DATA --------No report Hole Diam. 8 in. 364 ft. Depth Casing Diam. Casing Depth 60 Screen Diam. XX Screen Setting ×× ---Bedrock Screen Type Well Type Irrigation TEST DATA X 100 Static Water Level Date Measured Pumping Depth Test Duration Pumping Rate 110 GPM Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting -200 🗶 🗶 Average Pumpage ----- WATER QUALITY -----XX Samples Taken Yes No x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for 300 Split Samples to Comments ----- REMARKS -----Paved Over From Delaney and Gay (1980) recycled paper ecology and environment

Description

Well Log #	52		
Project Name	Woburn	Well	Survey
Project #	TDD F1-	-8010	-03 <sub>A</sub>
Date Prepared	11/18	/80	
Prepared By	W. No	rman	

2
1:0:0.
OSand (fine); some gravel
10 0 0 12
Silt and fine sand
20 X XBedrock (granite)

Depth, Ft. (M)

Well No.(B6) 128				
Location Rte. 93, 0.7 miles South				
of Rte, 128, Woburn				
Owner State of MA				
Ground Elev. 102 ft.				
Driller I				
Drilling Completed 1955				
Type of Pig				
WELL DATA				
Hole Diam.				
Depth 22 ft.				
Casing Diam.				
Casing Depth				
Screen Diam. Screen Setting				
Screen Type				
Screen Type Well Type Test-Unused TEST DATA				
TEST DATA				
Static Water Level 9				
Date Measured 6-55				
Pumping Depth				
Test Duration				
Pumping Rate				
Test Date				
Test Type				
Pump Setting				
Specific Gravity				
Final Pump Capacity				
Final Pump Setting				
Average Pumpage				
WATER QUALITY				
Samples Taken Yes No x				
No. of Samples				
Type of Samples				
Date Sampled				
Samplers				
Will be Analyzed for				
HIII DE AMAIJZEU TOI				
Split Samples to				
· · · · · · · · · · · · · · · · · · ·				
Comments				

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From Delaney and Gay (1980)

80 Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03 A Date Prepared 11/18/80 Woburn, MA 01801 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (w 85) 129 Location West side of Aberjona River, South of Aberj Drive, Wob. Owner City of Woburn 0 Ground Elev. 45-50 ft. Driller Drilling Completed 1936 Type of Rig Drive-wash ---Peat and muck 1d Hole Diam. 2 in. Depth usgs (1977) 42 ft., Log 69 ft. 15 Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused Static Water Level 10 ft. Date Measured 6/26/36 Pumping Depth ---Sand and gravel Test Duration 24 hrs. Pumping Rate 75 GPM Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting T Average Pumpage ----- WATER QUALITY -----Samples Taken Yes- ★ **1**58 No. of Samples\_ Type of Samples ---Clay, sand and gravel Standard Water Quality 67 69 No report Date Sampled 6/26/36 Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook Depth, Ft. (M) Well No. (W5) 130 Description Location Stoneham Owner Greico Bros. Ground Elev. 90 Driller Drilling Completed 1973 ---- Sand and gravel, brown Type of Rig\_ ----- WELL DATA -----Hole Diam. 2 Depth \_\_\_\_ Casing Diam. Casing Depth Screen Diam. Screen Setting ---- Till Screen Type Well Type Test ----- TEST DATA -----Static Water Level 4 Date Measured Pumping Depth Test Duration Pumping Rate -Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity ---- Clay, fine brown sand, Final Pump Setting and gravel Average Pumpage ---- Refusal ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delanev and Gay (1980)

Well Log # 58 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 12-2-80 Prepared By R. DiNitto Depth, Ft. (M) Description Well No. (B 15) 131 Location Rte. 93, 1.1 miles South of Rte. 128 ---Mud Owner State of MA Ground Elev. 37 feet Driller Drilling Completed 1941 Type of Rig Hole Diam. --- Coarse Sand & Gravel Depth 107 feet Casing Diam. 20 Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused 30-Static Water Level 4 feet Date Measured 7-41 Pumping Depth Test Duration 40-Pumping Rate T Test Date Test Type ---Fine Sand Pump Setting 50-Specific Gravity Final Pump Capacity Final Pump Setting -Average Pumpage ----- WATER QUALITY -----60-Samples Taken Yes No x No. of Samples Type of Samples 70-Date Sampled Samplers Will be Analyzed for 80 Split Samples to Comments 90------ REMARKS -----From Delaney and Gay (1980) 100recycled paper ecology and environment, inc.

	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 103 Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 1/5/81 Prepared By R DNitto
Depth, Ft. (M	<u>Description</u>	Well No. (W416) 132 Location Just South of W415
	Sand & broken rocks  No record Refusal	Owner Well no longer exists Ground Elev. 45 ft. Driller Drilling Completed 1951 Type of Rig

Well Log # 102
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

Depth, Ft. (M)	Description
000	Sand & Gravel
10-	Peat
20-00	Sand & Gravel
30 30	Coarse sand
40	Sand & Broken rock
50 53	

Well No. (W415 ) 133 Location 0.3 mi. South from Salem St. along B&M RP tracks, Wob. Owner Well no longer exists Ground Elev. 45 ft. Driller Drilling Completed 1951 Type of Rig Hole Diam. 2 in. Depth 53 ft. Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type
Well Type Test-Unused
----- TEST DATA -----Static Water Level 5 Date Measured Pumping Depth Test Duration Pumping Rate T Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity\_ Final Pump Setting -Average Pumpage \_\_\_\_\_ WATER QUALITY -----Samples Taken Yes × No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments

From Delaney and Gay (1980)

	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 101 Project Name Woburn Well Survey Project # TDD F1-8010-03 A Date Prepared 1/5/81 Prepared By R. DiNitto
Depth, Ft. (M	) <u>Description</u>	Well No. (W 414) 136
	Sand and gravel Clay, fine sand and gravel  40Refusal	Location East side of Holton St.  O.2 mi. north of Montvale Ave., Wob Owner No longer exists Ground Elev.45 ft. Driller Drilling Completed 1951 Type of Rig
		From Delaney and Gay (1980)

Well Log # Project Name Woburn Well Survey
Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Date Prepared 1/5/81 Woburn, MA 01801 Prepared By R. DiNitto Well No. (W 412) 137 Location 0.2 mi. northwest of Depth, Ft. (M) Description Whittemore Pond, Woburn Owner Well no longer extists Ground Elev. 50 ft. Driller Drilling Completed 1951 Type of Rig ---Peat Hole Diam. 2 in.
Depth 40.6 ft. Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA --------Sand and gravel, trace of Static Water Level 0 clay near bottom Date Measured Pumping Depth Test Duration Pumping Rate 50 GPM 20 Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x 30-No. of Samples\_ Type of Samples Date Sampled Samplers Will be Analyzed for 40.6 ---Refusal Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980) ecology and environment recycled paper

Well Log # Project Name Woburn Well Survey
Project #\_\_\_\_TDD F1-8010-03A ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 1/5/81 Prepared By P. DNitto Well No. (W417) 138 Location 0.1 mi South of W416 Depth, Ft. (M) Description Owner Well no longer exists Ground Elev. 45 ft. Driller Drilling Completed 1951 Type of Rig ----- WELL DATA --------Peat & Sand Hole Diam. 2 in. Depth 51 ft. Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused ----- TEST DATA -----Static Water Level o Date Measured 1-52 Pumping Depth Test Duration 20 Pumping Rate 70 GPM Test Date Test Type Pump Setting Specific Gravity --Fine sand mixed with Final Pump Capacity some clay and gravel Final Pump Setting Average Pumpage ----- WATER QUALITY -----30 Samples Taken Yes No x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for 40 Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980) ecology and environment

Description

Well Log # 111
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/11/80
Prepared By R. DiNitto

0	Peat
10-	
20.0000	17Fine to Medium gravel (gray) with some rocks 21Same but brown
30- × × × × × × × × × × × × × × × × × × ×	26Gravel, med., boulders 28Bedrock, type unknown 33Well ends
* * * * * * * * * * * * * * * * * * *	

Well No.( w 427 ) 139 Location 100 ft. north of Montvale Ave. by Whitemore Pond Owner Atlantic Gelatin Ground Elev. 45 ft. Driller Drilling Completed 1966 Type of Rig\_\_\_\_\_WELL DATA -----Hole Diam. 8 in. Depth 33 ft. Casing Diam. Casing Depth Screen Diam. YES (there is a Screen Setting screen) Screen Type\_\_ Well Type Test Static Water Level 5 Date Measured Pumping Depth Test Duration Pumping Rate -Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting -Average Pumpage ----- WATER QUALITY -----Samples Taken Yes\_\_\_\_No\_x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Depth, Ft. (M)

Well Log # 100 Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 1/5/81 Prepared By P. DiNitto Depth, Ft. (M) Description Well No. (W413) Location 0.1 mi. West of Whittemore Pond, Woburn Owner No longer exists Ground Elev. 50 ft. --- Peat Driller Drilling Completed 1951 Type of Rig ----- WELL DATA -------- Sand & Gravel Hole Diam. 2 in. Depth 34.5 ft. Casing Diam. Casing Depth 10-Screen Diam. Screen Setting Screen Type Well Type Test-Unused TEST DATA --- Red gravel Static Water Level 0 Date Measured Pumping Depth 18 Test Duration Pumping Rate T 20 Test Date Test Type Pump Setting --- Clay & Red gravel Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x 30 No. of Samples Type of Samples **34.5 ---** Æfusal Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 109
Project Name Woburn Well Survey
Project # TDD FI-8010-03 A
Date Prepared 1/5/81
Prepared By R DiNi++0

	WODULII, I'M OTOUL	Date Prepared 1/5/81
		Prepared By R. DiNitto
<del>-</del>	<del></del>	
Depth, Ft. (M)	Description	Wall No (> -/1
ocpon; 7 or (11)	beset the total	Well No. (W 425) 141
	· ·	Location O.2 mi. South of W 424
_		Owner wall no language
	-Artificial fill	Owner_Well no longer exists Ground Elev. 55 ft.
1.0.00	-Coarse gravel and sand	Driller
10-		Drilling Completed 1961
		Type of Rig
20		WELL DATA
	-	Hole Diam. 8 in.
	-Fine sand; trace of clay near	Depth 145 ft.
307 111	bottom	Casing Diam.
	50 C C C C C C C C C C C C C C C C C C C	Casing Depth
40		Screen Diam.
46		Screen Setting
50	-Clay and fine sand	Screen Type
55		Well Type Test
60-		TEST DATA
•••		Static Water Level 32
		Date Measured March 1961
70		Pumping Depth
	-Fine sand	Test Duration
80		Pumping Rate
		Test Date
90-		Test Type
<del></del>		Pump Setting
		Specific Gravity
100	- 1 5	Final Pump Capacity
	-Clay and fine sand	Final Pump Setting
110		Average Pumpage
		WATER QUALITY
120		Samples Taken Yes No x
.20		No. of Samples
120		Type of Samples
130 131	Coarse sand and gravel	
○ ○ ○ ° 38	Coarse sand and gravel Gravel and broken stone	
140 X X X	Bedrock	Date Sampled
145		Samplers
		Will be Analyzed for
		Culib Complex to
		Split Samples to
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		Comments
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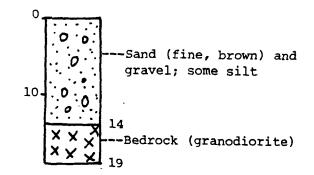
Well Log # 86 Project Name woburn Weil Survey Project # TDD F1-8010-03 A ECOLOGY AND ENVIRONMENT. INC. 30 East Cummings Park Woburn, MA 01801 Date Prepared 12-2-80 Prepared By R. DiNitto Description Depth, Ft. (M) Well No.( W 187) 142 Location Corner of Montvale Ave. And Central St. Woburn Owner Atlantic Gelatin Ground Elev. 55 ft. Driller Layne Drilling Completed 1960 Type of Rig ---Coarse sand & gravel Hole Diam. 2 in.
Depth 140 ft. Casing Diam. Casing Depth Screen Diam. 40-Screen Setting Screen Type Well Type Test-Unused ---Fine brown sand Static Water Level 15 ft. 60 Date Measured 10-60 Pumping Depth Test Duration Pumping Rate -80-Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity 100-Final Pump Setting Average Pumpage ----- WATER QUALITY --------Clay and fine gray sand Samples Taken Yes \_\_No \_x No. of Samples 120-Type of Samples Date Sampled 140 ---Refusal Samplers 140 Will be Analyzed for Split Samples to Comments From Delaney and Gay (1980) ecology and environment, inc. recycled paper

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Well Log #	51
Project Name	Woburn Well Survey
	TDD F1-8010-03A
Date Prepared	11/18/80
Prepared By	W. Norman

Depth, Ft. (M)

Description



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Well Log # 50
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 11/18/80
Prepared By W. Norman

Depth, Ft. (M)	Description
0	
0.0	Sand (fine, brown); gravel and trace of silt
8	
10	Very fine sand (gray-brown)
12	•
20	
	Sand (fine, brown) and some
	gravel
30	
30   1	
. •	
40	
4041	
1 7 1	Bedrock (granite)
×^× 46	

Wall No (P 4) 1//
Well No. (B 4) 144
Location Rte. 93, 0.1 miles sout
of Montvale Ave, Woburn
Owner State of MA
Ground Elev. 54 ft.
Driller
Drilling Completed 1958
Type of Rig
Type of Rig WELL DATA
Depth 46 ft.
Casing Diam
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Screen Type Well Type Test-Unused
TEST DATA
Static Water Level 14 ft.
Date Measured 1-58
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
MATER OUNTITY
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
HITT DE Alla 192ed Tot
Colit Complete
Split Samples to
Comments
REMARKS
From Delaney and Gay (1980)

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Well Log # 9
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)	Description	Well No.( W4 ) 145
		Location Stoneham
	*	O
0		Owner Atlantic Gelatin Ground Elev. 50
0.0.0		Driller
		Drilling Completed 1941
0.0:		Type of Rig
0	Sand and gravel	WELL DATA
[0,0]	Sand and grater	Hole Diam. 2
		Depth 26
15.90		Casing Diam.
		Casing Depth
10-		Screen Diam.
		Screen Setting
	Till	Screen Type
1 - 0 - 7		Well Type
		Static Nator Lovel
0 - 0	·	Static Water Level
Q		Pumping Depth
0_0		Test Duration
20 0		Pumping Rate
20 -0		Test Date
- 0 - 1		Test Type
		Pump Setting
		Specific Gravity
26		Final Pump Capacity
20		Final Pump Setting
		Average Pumpage
		Samples Taken Yes No x
	·	No. of Samples
		Type of Samples
	•	Type of Sampres
[	•	Date Sampled
		Samplers
		Will be Analyzed for
		Split Samples to
		Sprit Samples to
		Comments
		REMARKS
1		From Delaney and Gay (1980)

Well Log #		
Project Name	Woburn Well Survey	
Project # -	TDD F1-8010-03 A	
Date Prepared 11/18/80		
Prepared By_	W. Norman	

•	
	Prepared By W. Norman
Depth, Ft. (M) Description	Well No. (B 1) 146
OSand (fine, brown); some silt and gravel	Location Rte. 93, 0.25 miles south of Montvale Ave, Woburn Owner State of MA Ground Elev. 77 ft. Driller Drilling Completed 1958 Type of Rig
10 DVO 10 Grayel (course, brown); some	Hole Diam. Depth 32 ft. Casing Diam.
20 000 19 Coopers Coarse sand and gravel	Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test-Unused
30 X X XBedrock (schist) 32	Static Water Level 2 ft. Date Measured 1-58 Pumping Depth
	Test Duration Pumping Rate Test Date Test Type
	Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting
	Average Pumpage WATER QUALITY Samples Taken Yes No No. of Samples
	Type of Samples  Date Sampled
	Samplers Will be Analyzed for
·	Split Samples to

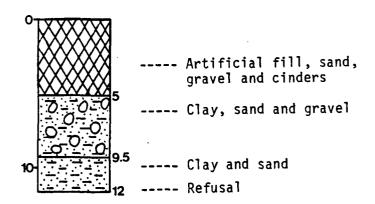
south of Montvale Ave, Woburn
JWHER State of MA
Owner <u>State of MA</u> Ground Elev. 77 ft.
ori He <b>r</b> [
Orilling Completed 1958
Type of Rig
WELL DATA
Hole Diam.
Depth 32 ft.
Casing Diam
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Wall Type mast revers
Well Type Test-Unused
TEST DATA
Static Water Level 2 ft.
Date Measured 1-58
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
HITT DE MILATYZEU TOT
Split Samples to
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Comments
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Well Log # 12
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 3/12/81
Prepared By D. Cook

Depth,	Ft.	(M)

Description



Well No. (X3) 1/7
Well No. (X3) 147 Location Stoneham
Location sconenan
Owner Unknown
Ground Elev. 150
Orillar
Drilling Completed 1923
Type of Pig
Type of Rig
Hole Diam.
Depth
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
.Screen Type
Well Type
Well Type TEST DATA
Static Water Level 6
Date Measured 1923
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Dump Cotting
Specific Gravity
Specific dravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No x
No. of Samples
Type of Samples
Type of Samples
Date Sampled
Samplers
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From Delaney and Gay (1980)

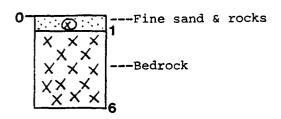
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	ENVIRONMENT, INC. ummings Park MA 01801	Well Log # 11 Project Name Woburn Well Survey Project # TDD F1-8010-03 Date Prepared 3/12/81 Prepared By D. Cook
Depth, Ft. (M)	Description	Well No. (X1) 148 Location Stoneham
20- 20- 20- 30- 30- 29.5	i and fine sand nd and gravel	Owner Unknown Ground Elev. 145 Driller Drilling Completed 1925 Type of Rig

Well Log #	31
	Woburn Well Survey
	TDD F1-8010-03 A
Date Prepared	1/5/81
Prepared By	R. DiNitto

Depth,	Ft.	(M)
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Description

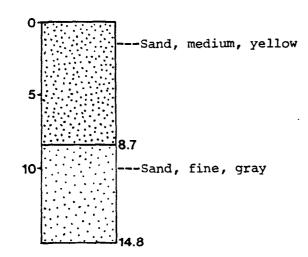


Prepared By R MNitto
'
Well No. (Bl) 151 Location 0.2 mi. east of w27
in Winchester, MA
Owner MDPW
Ground Elev. 100 ft.
Driller
Type of Rig WELL DATA
Type of Rig
WELL DATA
Hole Diam. Depth 6 ft.
Depth 6 ft.
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type Well Type Test-Boring
Well Type Test-Boring
IF2! DAIA
Static Water Level Dry
Date Measured 1958
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Date Sampled
Samplers
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Split Samples to
Comments
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Well Log # 34
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/11/81
Prepared By D. Cook

De	pth.	Ft.	(M)

Description



Well No. (B13) 152
Location Winchester
Owner MDPW Ground Elev. 33
Ground Elev. 33
Orillar
Drilling Completed 1934
Type of Rig WELL DATA
WELL DATA
Hole Diam.
Hole Diam. Depth 15 Casing Diam.
Casing Diam.
casing pepth
Screen Diam.
Screen Setting
Screen Type Well Type Test TEST DATA
Well Type Test
TEST DATA
Static Water Level 6'
Date Measured 1934
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type Pump Setting
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No ×
No. of Samples
Type of Samples
Data Samilad
Date Sampled
Samplers Will be Analyzed for
will be Analyzed for

Split Samples to

From Delaney and Gay (1980)

Comments

Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 3/11/81 Prepared By — D. Cook Well No. (W153) 153 Depth, Ft. (M) Description Location Winchester Owner Win - Wake Corp. Ground Elev. 40 Driller Drilling Completed 1967 Type of Rig ---Sand, brown ----- WELL DATA -----Hole Diam. 2 Depth Casing Diam. Casing Depth 20. Screen Diam. Screen Setting Screen Type Well Type\_\_\_ Test ----- TEST DATA -----Static Water Level 15 Date Measured October 1967 --clay, gray Pumping Depth Test Duration 40-Pumping Rate -Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----60 Samples Taken Yes No x No. of Samples Type of Samples 70 . Date Sampled Samplers ---Sand, fine, silty, brown Will be Analyzed for 80-Split Samples to Comments ----- REMARKS --------Sand and gravel, brown From Delaney and Gay (1980) 97.5---Refusal ecology mindrogrammente. recyclecyplembpaper

Well Log # 41 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03A Date Prepared 3/11/81 Woburn, MA 01801 Prepared By D. Cook Well No. (W152) 154 Location Winchester Depth, Ft. (M) Description Owner win - Wake Corp. Ground Elev. 35 --Till Driller Drilling Completed 1967 Type of Rig ----- WELL DATA -----Hole Diam. --Clay and fine sand Depth Casing Diam. Casing Depth 20 Screen Diam. Screen Setting Screen Type Well Type\_\_ Test ---- TEST DATA ---Static Water Level 17 Date Measured August 1967 0:0: |---Sand and gravel, brown Pumping Depth 40 0 0 Test Duration Pumping Rate 25 0.00.0 Test Date O. . . . --- Sand, fine; some clay and gravel Test Type 0.0.0.47.5---Refusal Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 43
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/11/81
Prepared By D. Cook

		D. COOK
Depth, Ft. (M)	Description	Well No. (W154) 155
		Location Winchester
	*	200401011
0		Ounce Win Wine Com
0.00		Owner Win - Wire Corp
-0.0.0-		Ground Elev. 40
0 - 0 - 0	<b>\</b>	Driller
1-0.0-0-1		Drilling Completed 1967
10-10-0		Type of Rig
107.0-0-1	}	WELL DATA
00-		Hole Diam. 2
00 -		Depth 50
-0c	lay, fine brown sand and gravel	
1-0 - O	-	Casing Diam.
20 -0 0-		Casing Depth
70 7 0 7		Screen Diam.
上でもある		Screen Setting
-0-0		Screen Type
		Well Type Test
30 1		TEST DATA
-0		Static Water Level 18
[ <u>0</u> = <u>,</u> <u>0</u> ]		Date Measured Oct. 1967
1 <del>.</del> 0.4.04		Pumping Depth
-0-0-		Test Duration
40 7 7		
		Pumping Rate
$\frac{1}{2}$		Test Date
		Test Type
-0		Pump Setting
50 1-0 4-150		Specific Gravity
		Final Pump Capacity
		Final Pump Setting
		Average Pumpage
		WATER QUALITY
		Samples Taken Yes No x
		No. of Samples
	-	Type of Samples
·		Date Sampled
		Samplers
		Will be Analyzed for
		-
		Split Samples to
		Comments
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		OF MADE A
	İ	REMARKS
		From Delaney and Gay (1980)
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	ECOLOGY AND ENVIRONMENT, INC. 30 East Cummings Park Woburn, MA 01801	Well Log # 74  Project Name Woburn Well Survey  Project # TDD F1-8010-03 A  Date Prepared 3/12/81  Prepared By D. Cook
Depth, Ft. (M	<u>Description</u>	Well No. (W 10) 156 Location Woburn
		20000 ton MOBILIT
_		Owner Win Crushed Stone
0   1   1   1	1	Ground Elev. 80
x × ×		Driller
X X	İ	Drilling Completed
× × ×		Type of Rig
		WELL DATA
X X		Hole Diam. 6
$\times \times \times$	ĺ	Depth 50
l x x		Casing Diam.
1		Casing Depth
10- X X X		Screen Diam.
l x x		Screen Setting
	Rodrock	Screen Type
$ \times \times \times $	Bedrock	Well Type
XX		TEST DATA
<u>}</u>		Static Water Level
× × ×		Date Measured
l ××		Pumping Depth
$\sim \times \times \times$		Test Duration 8 hr.
20-		Pumping Rate 100 GPM
XX		Test Date
×××		Test Type
1		Pump Setting
X X		Specific Gravity
×××	·	Final Pump Capacity
		Final Pump Setting
X X		Average Pumpage WATER QUALITY
X X X		
30- ××		Samples Taken Yes <u>No X</u> No. of Samples
i		Type of Samples
×××		Type of Jumpies
XX		
×××		Date Sampled
1 -		Samplers
X X		Will be Analyzed for
X X X.	•	1777 56 7174.13262 101
l × ×		
40-		Split Samples to
X X X		
XX		Comments
$\times \times \times$		
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1		
X×X		REMARKS
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Well Log # 46 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey 30 East Cummings Park Project # TDD F1-8010-03A Woburn, MA 01801 Date Prepared 3/11/81 Prepared By -D. Cook Well No. (x2) 158 Depth, Ft. (M) Description Location Winchester Owner MDPW O....O.O ---Sand and gravel 8--Sand, fine Ground Elev. 32 Driller Drilling Completed 1951 Type of Rig ----- WELL DATA -----Hole Diam. ---Sand, fine; some clay Depth Casing Diam. Casing Depth 40 Screen Diam. Screen Setting 48.2 Screen Type Well Type Test ----- TEST DATA --------Clay and very fine sand Static Water Level 14 Date Measured April 1951 Pumping Depth Test Duration 80 Pumping Rate Test Date 90.2 Test Type Pump Setting -Clay, very fine sand and rocks Specific Gravity 101.9---Refusal Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples\_ Type of Samples\_ Date Sampled Samplers Will be Analyzed for

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From Delaney and Gay (1980)

----- REMARKS -----

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Split Samples to

Comments

Well Log # 45
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/11/81
Prepared By D. Cook

Depth,	Ft. (M)	Description
0-	3-Sand, very	fill fine
20-		
40-	Sand, very	fine; some clay
60-		
80-	88.2	
100-		ery fine sand

Well No. (X1) 159 Location Winchester Owner MDPW Ground Elev. 30 Driller Drilling Completed 1951 Type of Rig ----- WELL DATA -----Hole Diam. Depth 107 Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type Test
----- TEST DATA -----Static Water Level 12 Date Measured April 1951 Pumping Depth Test Duration Pumping Rate T Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No  $_{\mathbf{x}}$ No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to

From Delaney and Gay (1980)

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Comments

Well Log # 36 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 3/11/81 Woburn, MA 01801 Prepared By -Depth, Ft. (M) Description Well No. (w24) 160 Location Winchester Berndt Realty Ground Elev. 45 Driller -Artificial fill Drilling Completed 1965 Type of Rig 10 ----- WELL DATA -----Hole Diam. 18 Depth Casing Diam. Casing Depth 20---Sand, fine Screen Diam. Screen Setting Screen Type Well Type Water 30 TEST DATA --Static Water Level 15 August 1965 Date Measured --- Sand, fine; rocks Pumping Depth 66 Test Duration 40 Pumping Rate -250 Test Date August 1965 Test Type ---Sand, coarse; gravel Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----60 Samples Taken Yes x No. of Samples Type of Samples Standard Water Quality Date Sampled August 1965 Samplers Will be Analyzed for --Sand, fine to medium Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 35
Project Name Woburn Well Survey
Project # TDD FI-8010-03A
Date Prepared 3/11/81
Prepared By D. Cook

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Woburn, MA 01801	Date Prepared 3/11/81
	Prepared By D. Cook
Death St (M)	11 17 11
Depth, Ft. (M) Description	Well No. (B14) 161
•	Location Winchester
0	
2LoamSand and gravel; some clay compact	Owner MDPW
sand and gravel; some clay	Ground Elev. 37
	Driller
Sand, very fine; some clay and	Drilling Completed 1951
20	Type of Rig
Sand, fine; trace of clay	WELL DATA
26	Hole Diam.
(÷: ÷: ÷: ) <sup>20</sup>	Depth 121
	Casing Diam
40 Sand, fine, some clay	Casing Depth
	Screen Diam.
	Screen Setting
	Screen Type
60	Well Type <u>Test</u>
	Static Water Level 20
69.6	Date Measured April 1951
	Pumping Depth
80 Sand, very fine; some clay	Test Duration
	Pumping Rate Test Date
	Test Type
	Pump Setting
	Specific Gravity
100	Final Pump Capacity
	Final Pump Setting
113	Average Pumpage
	WATER QUALITY
120 Sand, fine; some clay	Samples Taken Yes No x
177 (T-177)	No. of Samples
120.6 Refusal	Type of Samples
	Type or Sumpres
	Date Sampled
İ	Samplers
	Will be Analyzed for
	Will be Mary 256 Tor
	Split Samples to
	Spirio Sumpres so
	Comments
	00,11101100
	REMARKS
	From Delaney and Gay (1980)
	Trom sociation and say (2500)

Description

Well Log #	47	
Project Name	Woburn Well	Survey
Project #	TDD F1-8010-	-03A
Date Prepared	3/11/81	
Prepared By	D Cook	

07	56 8	Artificial fill Sand and gravel	
20-		Sand, fine	
40-	31.2		
60-		Sand, very fine;	some clay
80-	83.2		
100-		-Clay and very fin	ne sand

Depth, Ft. (M)

WETT NO.(X3) 162
Location Winchester
Owner_MDPW
Owner MDPW
Ground Elev. 28
Driller
Drilling Completed 1951
Type of Kig
WELL DATA
Hole Diam. 102
Depth
Casing Diam
Casing Diam.
casing Depth
Screen Diam.
Casing Depth Screen Diam. Screen Setting
Screen Type
Screen Type Well Type Test TEST DATA
well type Test
TEST DATA
Static Water Level 10
Date Measured Nov. 1951
Duraing Donth
Pumping Depth
Test Duration
Pumping Rate
Tact Nata
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity Final Pump Setting
Final Dump Cotting
rinai rump secenig
Average Pumpage
Average Pumpage WATER QUALITY Samples Taken Yes No ×
Samples Taken Yes No x
No. of Samples
Tune of Comples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
-
Split Samples to
שלוור שוויור איני איני איני איני איני איני איני אינ
Comments
<del></del>
REMARKS
From Delaney and Gay (1980)

Well Log # 33 ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03 A 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/11/81 Prepared By D. Cook Depth, Ft. (M) Well No. (B3) 163 Description Location Winchester ---Artificial fill MDPW Owner Ground Elev. 26 12.5 Peat, silty Driller Drilling Completed ---Sand, fine, silty Type of Rig\_ ----- WELL DATA -----Hole Diam. 120 ---Sand, coarse, yellow; gravel Casing Diam. Casing Depth ---Sand, coarse, yellow; gravel 47 and boulders Screen Diam. Screen Setting Screen Type --- Sand, very fine, gray Well Type Test 60 ----- TEST DATA -----Static Water Level Date Measured February 1954 Pumping Depth Test Duration ---Sand, fine gray 80 Pumping Rate Test Date Test Type Pump Setting Specific Gravity 100 Final Pump Capacity Final Pump Setting 112 Sand, coarse, gray; gravel Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 3/11/81 Woburn, MA 01801 Prepared By D. Cook Depth, Ft. (M) Description Well No. (B2) 164 Location Winchester Owner MDPW -Artificial fill, and, gravel Ground Elev. 18 and cinders Driller Drilling Completed 1951 Type of Rig ----- WELL DATA --------Peat Hole Diam. Depth 20 Casing Diam. Casing Depth Screen Diam. Screen Setting 27.5 Sand, fine, gray; trace of clay Screen Type ::::31 ::::--Sand, coarse, gray Well Type Test ----- TEST DATA ---Static Water Level Date Measured October 1951 --Sand, coarse, yellow; some fine Pumping Depth gravel Test Duration Pumping Rate 7 Test Date o:• : o :: Test Type Pump Setting Specific Gravity --Sand, coarse, yellow Final Pump Capacity Final Pump Setting 7 Average Pumpage 60 <del>.</del> ⊢63.5 --Sand, sand, yellow, coarse No. of Samples Type of Samples Date Sampled -Sand, coarse yellow Samplers Will be Analyzed for 82.5 -Sand, coarse, yellow; coarse Split Samples to gravel Comments ----- REMARKS -----101.5 From Delaney and Gay (1980) -Sand, coarse; coarse gravel; trace of clay ecology and environment --- Refusal

Well Log # Project Name Woburn Well Survey ECOLOGY AND ENVIRONMENT, INC. Project # TDD F1-8010-03A 30 East Cummings Park Woburn, MA 01801 Date Prepared 3/12/81 Prepared By D. Cook Well No. (B3 166 Description Depth, Ft. (M) Location Stoneham Owner MDPW Ground Elev. 164 Driller Drilling Completed 1958 ---- Artificial fill, Type of Rig\_ fine to coarse sand, ----- WELL DATA ----and rocks Hole Diam. Depth Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type ---- Peat, silt and sand Well Type TEST DATA -----Static Water Level Date Measured Pumping Depth Test Duration ---- Silt Pumping Rate Test Date Test Type Pump Setting Specific Gravity ---- Clay, silt and fine Final Pump Capacity gray sand Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples Type of Samples ---- Sand, fine to medium, Date Sampled gray; rocks Samplers Will be Analyzed for Split Samples to Comments ---- Bedrock, granite ----- REMARKS -----...... From Delaney and Gay (1980)

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Well Log # 8
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)	Description
0 0	 Sand, fine, brown; broken rocks
10-0-0 0-0-0 0-0 0-0 12.3	 Sand, fine sand, gray- brown; some silt & fine to medium gravel Sand, fine, brown, some silt
20-0-0-0	 Sand, fine, brown; some silt and fine gravel
22.3 *	 Bedrock, granitized gneiss
·	

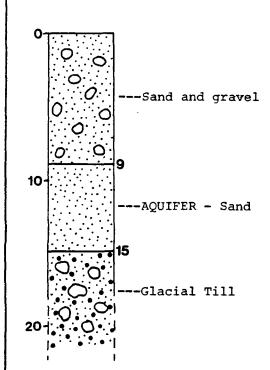
Prepared by D. Cook
Well No. ( P2) 167
Well No. (B3) 167 Location Stoneham
Stonenam .
Owner MDDW
Owner MDPW Ground Elev. 154
Drilling Completed 1958
Type of Ria
Type of Rig
Hola Diam o
Depth 27 Casing Diam. Casing Depth
Casing Diam.
Casing Depth
Screen Diam.
Screen Diam. Screen Setting
Screen Type
Well Type TEST DATA
TEST DATA
Static Water Level 1
Date Measured 1/58
Pumping Depth I
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Capacity Final Pump Setting
Average Pumpage
Average Pumpage
Samples Taken Yes Nox
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Comments
05140145
REMARKS
From Delaney and Gay (1980)

ecology and environment

Well Log # 65
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)

Description



Well No. (E10) 168
Location Corner of Mishwaum
and Commerce Way, Woburn
Owner Woburn National Bank
Owner Woburn National Bank Ground Elev. 60 ft. (Topo.)
Driller American Artesian
Driller American Artesian Drilling Completed 1979
Type of Riq
WELL DATA
Hole Diam
Depth 15 feet
Casing Diam
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type Irrigation
TEST DATA
Static Water Level 9 ft.
Date Measured 1979
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Date Sampled
HATE SAMOTEN

Samplers

Will be Analyzed for

Split Samples to

Comments

Courtesy Ed Johnson Woburn
National Bank Woburn, MA

recycled paper

Description

Well Log # 119
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 1/5/81
Prepared By R. DiNitto

OSand & Broken Gravel	
Wood & Greasy Materia	al
20-21.5 Sand	

Depth, Ft. (M)

Well No. (X4) 169 Location Corner of Mishawum Road and Commerce Way Owner Well no longer exists Ground Elev. 55 ft. Driller Drilling Completed -Type of Rig\_ ----- WELL DATA -----Hole Diam. NA
Depth\_\_\_\_\_ 21.5 ft. Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type
Well Type Test-Unused
----- TEST DATA -----Static Water Level Date Measured Pumping Depth Test Duration Pumping Rate -Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No X No. of Samples\_ Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----From Delaney and Gay (1980)

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Well Log # 6
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)

Description

Well No (W 340) 170 Location Reading

0-		1
	x x ×	13
100-	××	
	x x ×	
200-	××	
	x x ×	
300-	××	
400-	×××	
400	X X	
500-	x x x	Bedrock
	x ×	
600-	xxx	
	x x	
700-	x × ×	
	XX	
800-		
200	XXX	
900-	XX	
1000	XXX	1000
1000-		1000

Owner Addision Wesley
Ground Elev. 130
Driller
Drilling Completed 1965
Type of Rig
Hole Diam. 6"
Hole Diam. 6" Depth 1000 ft
Casing Diam.
casing bepth
Screen Diam.
Screen Setting
Screen Setting Screen Type
Well Type Water TEST DATA
TEST DATA
Static Water Level 12 55
Date Measured 11/65
Pumping Depth
Test Duration 24 hr
Pumping Rate 20 GPM
Test Date 11/65
Test Type
Test Type Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes x No
No. of Samples
Type of Samples
· · · · · · · · · · · · · · · · · · ·
Standard Water Quality
Date Sampled 17///CE
Date Sampled 11/4/65
Samplers Will be Analyzed for
will be Analyzed for
Calife Camboo to
Split Samples to
Company
Comments

From Delaney and Gay (1980)

ecology and environment

Description

Well Log # 2
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 3/12/81
Prepared By D. Cook

<b>2</b>
Artificial fill
10Clay, sand, gravel, rocks
20

Depth, Ft. (M)

<u> </u>
Wall No max and
Well No (B2) 171 LocationReading
LocationReading
Owner MDPW
Ground Elev. 157
Driller
Type of Rig
Drilling Completed 1948  Type of Rig
Hole Diam.
Depth 28
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type
TEST DATA
Static Water Level
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type
Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken YesNo_x
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
Callib Cample
Split Samples to
Comments
Comments
DEMARKS
REMARKS
From Delaney and Gay (1980)

Well Log #	5
Project Name	Woburn Well Survey
	TDD F1-8010-03A
Date Prepared	3/11/81
Prepared By_	D. Cook

Depth, Ft. (M)	<u>Description</u>
0 0 0 15	Sand, fine to medium; gravel; trace of clay
20 	Clay, fine gray-brown sand,and gravel
30 -0 30	Refusal

Well No. (W120) 172		
Location Reading		
Owner Town of Reading		
Ground Elev. 110		
Driller		
Drilling Completed 1969		
Type of Rig		
WELL DATA		
Hole Diam.		
Depth		
Casing Diam. 2 Casing Depth 15		
Casing Depth 15		
Screen Diam.		
Screen Diam. Screen Setting Screen Type Well Type Test		
Screen Type		
Well Type Test		
TEST DATA		
Static water Level 4		
Date Measured August 1969		
Pumping Depth		
Pumping Depth Test Duration 6 Pumping Rate 45 GPM		
Pumping Rate 45 GPM		
Test Date Test Type		
Test Type		
Pump Setting		
Specific Gravity		
Final Pump Capacity		
rinal rump Setting		
Average Pumpage		
WATER QUALITY		
Samples Taken Yes No x		
No. of Samples Type of Samples		
Type of Samples		
Date Sampled		
Samplers_		
Will be Analyzed for		
Colife Complex to		
Split Samples to		

From Delaney and Gay (1980)

Comments

Well Log # 27
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared 3/12/81
Prepared By D. Cook

Depth, Ft. (M)	Description
0	*
X X X 3	
××	
x × ×	
~~ × ×	
x × ×	
x x	
80- X X XBedrock	
XX	
* * * ^	
80- X X X X X X X X X X X X X X X X X X X	
120-1 X X	
$\times \times \times$	
× ×	
160- X X X	
X X	
x x x	
200 × ×	
× ¸× ¸×	·
227	
	·

Well No. (W 188) 173 Location Wilmington Owner <u>William Gauvin</u> Ground Elev. 145 Driller Drilling Completed 1956 Type of Rig\_ ----- WELL DATA -----Hole Diam. Depth 227' Casing Diam. Casing Depth Screen Diam. Screen Setting Screen Type Well Type ----- TEST DATA -----Static Water Level 60 Date Measured 9/56 Pumping Depth\_\_\_ Test Duration Pumping Rate 16 pm Test Date Test Type Pump Setting Specific Gravity Final Pump Capacity Final Pump Setting Average Pumpage ----- WATER QUALITY -----Samples Taken Yes No x No. of Samples Type of Samples Date Sampled Samplers Will be Analyzed for Split Samples to Comments ----- REMARKS -----

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From Delaney and Gay (1980)

Well Log # 128 Project Name Woburn Well Survey
Project # TDD F1-8010-03A Date Prepared 11/30/81

ecology and environment, inc.

	•	Prepared By M. Hanley
Depth, Ft. (M	) Soil Description	Well No. (E44)(Boring) 174
	Blow Counts/6"	Location Woburn, MA
		Owner MDC
		Ground Elev. 106'2" MSL
7116		Driller Guild Drilling Co., I
11		
	•	Drilling Completed 8/11/81
		Type of Rig Truck Mounted
0.7		
0	Br. F-M sand, some F-M gravel	Well Diam.
200	, 3	Depth 36' 3"
$Q \cdot Q = Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot Q \cdot $		Screen Diam.
0.0		Screen Setting
0.0	Du T V and and amount trans made	Screen Type
0.0	Br. F-M sand and gravel, trace rock	
0.0.	or boulder fragments.	Well Type Boring
0.0		
XXXX		Static Water Level
x x		Date Measured
x x X X		WATER QUALITY
X		Samples Taken Yes No X
D x x X x x		No. of Samples
X X		Type of Samples
X X X X	·	
X		
XX		Date Sampled
X		
XX		Samplers
		Will be Analyzed for
1^^ <b>=</b> x X		
X		
X		
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X JX   X JX	•	
$\begin{bmatrix} x \\ x \end{bmatrix} \begin{bmatrix} x \\ x \end{bmatrix}$	Bedrock	
X X X	·	
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X X		
X X X X		
x x x x		
		REMARKS
X X X		Boring Log Courtesy of Haley
		& Aldrich, Inc., Cambridge, MA.
x x x x		a material managed and
'\'\'		
) x x x x x x x		
^^ ×		· •
x x × x		SOIL DESCRIPTION ABBREVIATIONS
$\hat{x}$		Trace 0-10% C-Coarse Br-brown
x^x	•	Some 10-40% M-Medium Bl-black
^ ^ ×		And 40-50% F-Fine Y-yellow
		- T-tan
'x' x		Gr-grey
recycled p	paper	
recycled p	aper	ecology and environment, inc. R-red

Trace 0-10% C-Coarse

And 40-50% F-Fine

ecology and any improprieting.

M-Medium

Some 10-40%

Br-brown

B1-black

Y-yellow T-tan Gr-grey

R-red

Well Log # 129

ECOLOGY AND ENVIRONMENT, INC. Project Name Woburn Well Survey Project # TDD F1-8010-03A 30 East Cummings Park Date Prepared 11/30/81 Woburn, MA 01801 Prepared By M. Hanley Well No. (E 45)(Boring) 175 Soil Description Depth, Ft. (M) Blow Counts/6" Location Woburn, MA Owner MDC Ground Elev. 122.8' MSL Driller Guild Drilling Co. Inc. Drilling Completed 8/14/81 Type of Rig Truck Mounted ----- WELL DATA -----Topsoil and fill Well Diam. Depth 54 Screen Diam. Screen Setting Gr.-Br., F-C sand and gravel, some Screen Type silt, rock/boulder fragments Well Type Boring Static Water Level Date Measured ----- WATER QUALITY -----Samples Taken Yes No X 10-No. of Samples Boulder Type of Samples Br. F-C sand trace F gravel and cobbles Date Sampled Samplers Will be Analyzed for 15 X X XX 20 x x×х  $\mathbf{x}$ Bedrock хX 25 REMARKS XX Boring Log Courtesy of Haley & Aldrich, Inc. Cambridge, MA SOIL DESCRIPTION ABBREVIATIONS

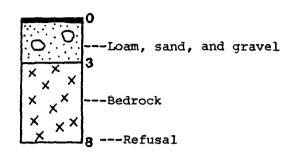
Well Log # 129
Project Name Woburn Well Survey
Project # TDD F1-8010-03A
Date Prepared
Prepared By M. Hanley

D b L	Th (V)		Cail Dans I wiss	II-11 No
Depth	, Ft. (M)		Soil Description Blow Counts/6"	Well No. (E45) 175 ·
			Blow Counts/6	Location
				Owner
X >				Ground Elev
×				Driller
X X				Drilling Completed
x^x				Type of Rig Truck Mounted
X				WELL DATA
40 X >	X X			Well Diam.
X				Denth
X	× × ×			Screen Diam
X		Bedrock		Screen Setting
		20010011		Screen Type
X				ocicen Type
45 X				Well Type
73 x x				Static Water Level
X	X			Date Measured
X				WATER QUALITY
X				Samples Taken Yes No
X,	` <b></b>			No. of Samples
50 X X	1 1 1 1			Type of Samples
30 x				Type of Samples
x x				
×				Date Sampled
X X				Samplers
<del></del>				Will be Analyzed for
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65				
				REMARKS
			•	
	1 1			
ľ				
70-			•	
				SOIL DESCRIPTION ABBREVIATIONS
				Trace 0-10% C-Coarse Br-brown
			•	Some 10-40% M-Medium Bl-black
				And 40-50% F-Fine Y-yellow
				T-tan
75-				~ Gr-grey
1	recycled paper	paper er		ecology and environment, inc. R-red
	TOCACION DOD	<del>4</del>		ccology and environment

Well Log # 21
Project Name Woburn Well Survey
Project # TDD F1-8010-03 A
Date Prepared 12/8/80
Prepared By R. DiNitto

Depth, Ft. (M)

Description



Well No. (GW 9) 174
Well No. (GW 9) 176 Location Corner of Eames St. and B&M Railroad, Wilmington Owner Olin Chemical
and B&M Railroad. Wilmington
Owner Olin Chemical
Owner Olin Chemical Ground Elev. 90 ft.
Driller !
Drilling Completed
Type of Rig
WELL DATA
Hole Diam. 12 in.
Depth 6-8 ft. Casing Diam.
Casing Diam.
Casing Depth
Screen Diam.
Screen Setting
Screen Type
Well Type well not installed
TEST DATA
Static Water Level
Date Measured
Pumping Depth
Test Duration
Pumping Rate
Test Date
Test Type Pump Setting
Specific Gravity
Final Pump Capacity
Final Pump Setting
Average Pumpage
WATER QUALITY
Samples Taken Yes No X
No. of Samples
Type of Samples
Date Sampled
Samplers
Will be Analyzed for
Split Samples to
Comments
DEMADAG
Francisco REMARKS
From Geotechnical Engineers
Inc. (1978)
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